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September 27, 2021
File No. 01.0175290.00

Mr. John Lopez
Conservation Agent
City of Amesbury Conservation Commission
39 South Hunt Road
Amesbury, Massachusetts 01913

Re: Addendum to Notice of Intent for 54 Lake Attitash Road (DEP File #002-1283)
54 Lake Attitash Road
Amesbury, Massachusetts

Dear Mr. Lopez:

On behalf of Mr. Robert Manseau, GZA GeoEnvironmental, Inc. (GZA) is pleased to submit this addendum to the Notice of Intent application for 54 Lake Attitash Road (DEP File #002-1283) in the City of Amesbury, Massachusetts. This addendum addresses comments provided by the Amesbury Conservation Commission during the public hearing on May 3, 2021.

PROJECT BACKGROUND

GZA understands that the Amesbury Conservation Commission requested the applicant revise the existing Notice of Intent application for improvements to the property at 54 Lake Attitash Road. GZA further understands, from review of the NOI application submitted by Atlantic Engineering & Survey Consultants, Inc, dated June 22, 2021, that the applicant is proposing to construct a new segmented retaining wall along the top of slope, install a pervious paver patio and walkways between the existing home and the top of slope, replace the existing wooden stairway to the dock with granite steps and to request a waiver of the Amesbury Wetland Regulations for a new pervious paver walkway, new aluminum fence and for the lawfully existing dock structure. The proposed improvements are within the City's 25-foot No Disturb Zone to the Bank of Lake Attitash, Bank resource area and the 100-foot Buffer Zone to Lake Attitash.

GZA also understands that the Conservation Commission provided several verbal comments to the applicant and Atlantic Engineering regarding construction of new impervious features within the 25-foot No Disturb Zone. Specifically with regard to the addition of the retaining wall near the top of slope and the construction of a patio between the home and the top of slope. GZA was not requested to verify the existing Bank resource area boundary limits.

SITE LOCATION AND DESCRIPTION

The Site is located on a 0.24-acre parcel owned by Mr. Robert Manseau. The Site includes a single-family home bounded by Lake Attitash to the west, a single-family residence to the north, Lake Attitash Road to the east and a single-family residence to the south. The Site includes a split rail fence enclosed side yard along the east and south side, a narrow backyard along the west side that includes a naturalized slope along the bank of Lake Attitash (See **Figure 1**, attached and **Attachment B - Photos**). A set of wood stairs leads down the slope to an existing dock within the lake. A stone wall with a variable height of approximately 24 to 34 inches, runs along the toe of the slope and adjacent to the bank of Lake Attitash. Several stones that appear to have once been in the wall were observed adjacent to the wall on the uphill/slope side.



INSTALLATION OF PERVIOUS PAVER PATIO AND WALKWAY TO DOCK STAIRS

The area of the proposed patio contains packed dirt and patches of grass and is a high traffic area by pedestrians. Mr. Manseu is concerned about erosion from the foot traffic and is proposing to install pervious pavers to resist erosion of the grass and dirt and provide a more stable surface for foot traffic. The proposed patio will utilize pervious pavers to allow for infiltration of rainwater and snowmelt; grass will be allowed to grow. The prior proposed limits extended the patio between the home and the top of slope; per the Commission's request, this portion of the proposed new patio has been eliminated and the patio extent has been pulled back to be in line with the lakeside limit of the house (see **Attachment C – Permit Plans** for the area of proposed patio and **Attachment D – Example Materials** for a brochure of proposed pavers to be installed). Approximately 755 SF of the 100-foot buffer zone will be impacted by the proposed patio. The paving stones will be laid in a manner to preserve the 20-inch oak tree in place and a cutout for the 16-inch pine tree has been made to save the root system within the drip line. In addition, a stone fire pit is proposed to be constructed on top of the pervious pavers.

A 2-foot-wide walkway from the edge of the patio to the top of the wood stairs to the dock is proposed to impact approximately 29 SF; currently the area consists of worn grass and packed dirt (see **Attachment B – Photos** for site photos and **Attachment C – Permit Plans** for proposed walkway location). The proposed pervious paver walkway will attenuate cumulative erosion of this area and allow for safer access to the top of the stairs.

RECONSTRUCTION OF DOCK STAIRS

The project proposes to reconstruct the existing temporary wood stairs that lead to the existing dock. The temporary wood stairs were installed to replace the existing degraded stairs that were a structural safety issue. Regular ice jams, formed during spring thaw conditions, push the ice up onto the stairs and create an unsafe passage down the slope to the dock. In addition, the ice had dislodged the prior stair components making them unstable. The project proposes to impact approximately 48 SF of Buffer Zone to replace the temporary wood stairs with granite flagstone steps overlain on a crushed gravel base to allow for infiltration of stormwater (see **Attachment C – Permit Plans** for the area of proposed stair replacement and **Attachment D – Example Materials** for the proposed granite stairs). The steps will be installed through the removal of the existing temporary wooden steps, removal of prior stair retaining wall and stone materials, removal of accumulated sediment within the footprint of the existing stair area, installation of base gravel and installation of stone step so the top elevation is flush with the former wood and dirt stair invert. The lowest stone stair step is proposed to impact 3.5-linear feet of Bank along Lake Attitash (see **Attachment B – Photos** for existing condition).

RECONSTRUCTION OF EXISTING RETAINING WALL

The project proposes to reconstruct the existing stone retaining wall along the toe of slope using modern materials to provide structural stability to the Bank of the lake and prevent erosion of the shoreline from winter ice jams and summer wave action by wind events and storms. The proposed wall will utilize a "Fat Face Gravity Wall" (see **Attachment C – Permit Plans** for the area of wall reconstruction and see **Attachment D – Example Materials** for product brochure for the proposed retaining wall materials). The existing wall is variable in width and height due to deterioration but maintains a variable width of 12-18 inches wide by 24 – 34 inches high. The reconstructed wall will replace the stone wall with a 16-inch wide by 30-inch-high wall that does not require a footing or foundation; the proposed wall would temporarily impact approximately 130 SF for its entire length on the property for reconstruction purposes. No new impacts to Bank or the 25-foot No Disturb / 100-foot Buffer Zone are proposed. Areas of temporary disturbance will be restored using a native seed mix and plantings as part of the proposed Buffer Garden.

INSTALLATION OF STEEL FENCE

A 4-foot-high Bradford aluminum rail fence is proposed along the top of slope to prevent pedestrians, especially children, from accidentally falling down the slope and potentially into the lake. The fence will allow for the passage of local wildlife and floodwater (see **Attachment C – Permit Plans** for the area of proposed installation and **Attachment D – Example Materials** for the product brochure).



RELOCATION OF EXISTING SHED

An existing storage shed, located along the west face of the split rail fence near Lake Attitash Road, is proposed to be relocated 3-feet further to the northeast (closer to the road) to accommodate the proposed pervious paver patio (see **Attachment C – Permit Plans** for the proposed shed relocation). In addition, three dark American arborvitaes will be planted along the east side of the shed to provide a vegetative screen.

CREATION OF BUFFER GARDEN

The project proposes to convert the existing slope to the Lake into a Buffer Garden with native seed and plantings. The conversion will include the hand removal and treatment of existing invasive species, including a small knotweed (*Polygonum cuspidatum*) along the north side of the slope. The remaining areas of the slope will be similarly treated using hand removal methods and selective use of an herbicide for spot treatment of non-native plants. Existing trees and shrubs will remain in place. Removal of undesirable plants will then commence prior to soil preparation, addition of seed and plants and top dressing with weed-free straw or other temporary site stabilizing materials (see **Attachment C – Permit Plans** for the proposed buffer garden details). Watering will be required during the growing season when natural rainfall is below one inch per week, for the first month after installation. Installation of plantings will be overseen by either a landscaping or nursery specialist; watering will be required every week for the first month. Grading or other large soil disturbance is not proposed as part of the Buffer Garden creation.

Members of the Conservation Commission provided recommendations for plantings and seed mix, to include the following species:

Shrubs for the slope area:

- *Rhododendron periclymenoides* - Pinxter Azalea
- *Ilex glabra* - Inkberry
- *Clethra alnifolia* – Sweet pepperbush
- *Vaccinium angustifolium* - Low-bush Blueberry
- *Cornus canadensis*- Bunchberry
- *Juniper horizontalis*- Creeping Juniper

Shrubs will be interspersed with a native conservation wildflower mix to be supported by the following individual plantings to promote self-seeding:

- *Eupatorium rugosum* - White Snakeroot
- *Symphyotrichum pilosum* - Heath Aster
- *Lobelia cardinalis* - Cardinal flower
- *Schizachyrium scoparium* - Little Bluestem
- *Carex pensylvanica* – Pennsylvania Sedge
- *Rudbeckia hirta* - Black-eyed Susan
- *Sisyrinchium* – Blue eyed grass

WETLANDS PROTECTION ACT APPLICABILITY

The proposed project activities qualify as minor activities within the buffer zone under 310 CMR 10.02(2)(b)(2)(b), (d) and (e) and will comply with performance standards for Bank resource area.



WPA BANK RESOURCE AREA PERFORMANCE STANDARDS

310 CMR 10.54(4)(a): The physical stability of the Bank.

The proposed stone step will replace the existing temporary wood stairs, which in turn replaced the failed and structurally unstable tiered wood and dirt steps. The physical stability of the Bank within the area of lowest stone stair reconstruction will be improved through structural stabilization of the slope provided by the stone. In addition, the stone step will mitigate erosion of the Bank during storm events and winter / spring ice jams.

310 CMR 10.54(4)(b): The water carrying capacity of the bank and the existing channel within the bank.

The water carrying capacity of the Bank is not anticipated to be negatively affected by the addition of the stone step, as the stone will be placed to match the existing elevation of the surrounding slope. Installation would require removal of the existing temporary wood stairs, removal of the remnants of the former wood and dirt tiered stairs, over excavation of the base of the stone slab to accommodate installation of the base drainage stone, and placement of the stone in line with the pre-existing elevation. Void spaces within the base drainage stone would provide additional water carrying capacity within the Bank.

310 CMR 10.54(4)(c): Ground water and surface water quality.

The surface water quality of Lake Attitash is anticipated to improve with the addition of the stone step through the stabilization of sediment on the Bank and adjacent slope. Stabilization of the Bank through the addition of slope protection (the proposed stone step) is anticipated to mitigate movement of sediment into the Lake from strong wind / wave events and winter / spring ice jam buildup. Groundwater quality is anticipated to be unaffected as the improvements are located above the existing groundwater table.

310 CMR 10.54(4)(d): The capacity of the Bank to provide breeding habitat, escape cover, and food for fisheries/wildlife.

The capacity of the Bank to provide breeding habitat, escape cover and food for fish/wildlife in the area of the stone step is anticipated to increase due to the reduction in erosion of the Bank and surrounding slope from ice jam and wave action. In addition, creation of the Buffer Garden immediately adjacent to the proposed stone stair, where rainfall will be allowed to infiltrate, will promote growth of vegetation to help anchor the soils and further stabilize the slope.

310 CMR 10.54(4)(e): The capacity of the Bank to provide important wildlife habitat functions.

The total permanent impacts include approximately 3.5 linear feet of Bank due to placement of the lowest stone step. The Bank impact is less than the allowed performance standard under 310 CMR 10.54(4). Removal of the temporary wood stairs will allow for unrestricted access across the Bank for local wildlife, providing a functional lift for access over existing conditions.

AMESBURY INLAND BANK RESOURCE AREA PERFORMANCE STANDARDS

AWR 18.2(d)(1): A proposed project shall not cause any adverse effect or cumulative adverse effect upon the wetland values of Inland Bank or Inland Beach.

The project proposes to replace the existing temporary wood stairs with stone steps that will allow the infiltration of rainwater and passage of wildlife across the stair area. In addition, the stone steps will help to attenuate erosion of the bank and slope from wave action and ice jam events that currently occur. Such past events have eroded the bank and degraded the existing slope. In addition, the removal of the wood stairs and replacement with stone steps will



limit the overall footprint of the stair area and allow for reclamation of the bank and slope by native plantings associated with the Buffer Garden, providing additional wildlife habitat.

AWR 18.2(d)(2): A proposed project shall be permitted only if there is no adverse effect on bank stability, bank height, ground water and surface water quality, the water carrying capacity of an existing channel within a bank, and the capacity of the bank to provide habitat for fisheries and/or wildlife.

The physical stability of the Bank in the area of the stone stair reconstruction will be improved through structural stabilization of the slope that will also mitigate erosion of the Bank during storm events and winter / spring ice jams. Stabilization of the Bank through the addition of slope protection (the proposed stone step) is anticipated to mitigate erosion of the slope and transport of sediment into the Lake from strong wind / wave events and winter / spring ice jam buildup. Groundwater quality is anticipated to be unaffected as the improvements are located above the existing groundwater table. The capacity of the Bank to provide breeding habitat, escape cover and food for fish/wildlife in the area of the stone step is anticipated to increase due to the reduction in erosion of the Bank and surrounding slope from ice jam and wave action. In addition, creation of the Buffer Garden immediately adjacent to the proposed stone stair, where rainfall will be allowed to infiltrate, will promote growth of vegetation to help anchor the soils and further stabilize the slope.

AWR 18.2(d)(3): Notwithstanding the above provisions, no project may be permitted which will have any adverse effect on specified habitat of rare vertebrate or invertebrate and rare plant species, as identified by procedures established pursuant to 310 CMR 10.59.

The project is not located within mapped NHESP Estimated Habitats of Rare Wildlife or Priority Habitats of Rare Species.

AMESBURY BUFFER ZONE RESOURCE AREA PERFORMANCE STANDARDS

AWR 20.0(d)(1): The intent of the Conservation Commission is to move all structures and activities as far away as possible from any Resource Area, in order to protect the wetland values of Resource Areas

Mr. Manseau has revised this application per comments received from the Conservation Commission and has made the following adjustments:

- The pervious paver patio has been removed from the 25-foot No Disturb Zone;
- The new retaining wall at the top of slope has been removed and replaced with an aluminum fence that allows for the passage of wildlife and floodwaters;
- The proposed reconstructed retaining wall at the toe of slope will remain within the footprint of the existing stone wall and not expand in size;
- The proposed Buffer Garden will incorporate native plant species as recommended by Conservation Commission members

Additional project activities, including reconstruction of the existing stairs to the dock, are unable to be moved out of the buffer zone due to the existing conditions (located within buffer zone). The proposed pervious paver walkway is also unable to be relocated due to nature of the location of the existing path to the dock stairs.

AWR 20.0(d)(2): Except as otherwise specified, Resource Area buffers shall be retained and maintained in a naturally vegetated condition. Where buffer disturbance has occurred during construction, revegetation with native vegetation may be required.



The project proposes the creation of a Buffer Garden on the existing slope to the Lake using native species plantings as recommended by Conservation Commission members. In addition, creation of the Buffer Garden will require removal of existing invasive species on the slope, providing an increase in wildlife habitat value. Areas of temporary disturbance will be restored using a native conservation / wildlife seed mix and stabilized using weed-free straw as required.

The decrease in size of the pervious paver patio will allow the Site to maintain additional areas of vegetation between the home and the top of slope, allowed for increased infiltration of stormwater and retention of sediment.

AWR 20.0(d)(3): The Commission may require that already-altered buffer zone be restored in order to protect or improve Resource Area values. Restoration means planting native vegetation, grading, correcting site drainage, removing debris, or other measures which will improve, restore and protect the wetland values of the Resource Area.

The proposed Buffer Garden will remove existing invasive species and restore the slope with native plant species. In addition, several native plantings will occur throughout the property, outside of the 25-foot No Disturb Zone, at the recommendation of Commission members.

Installation of the proposed pervious paver walkway to the dock stairs will help attenuate cumulative erosion of the grassed slope in the area and promote natural revegetation.

Reconstruction of the stone wall will remove non-native materials associated with the original installation of the wall. Reconstruction of the dock stairs will allow for removal of the temporary wood stairs and tiered wood and dirt gardening beds and replace with native plantings.

AWR 20.0(d)(4): Notwithstanding the above provisions, no project may be permitted which will have any adverse effect on specified habitat of rare vertebrate or invertebrate and rare plant species, as identified by procedures established pursuant to 310 CMR 10.59.

The project is not located within mapped NHESP Estimated Habitats of Rare Wildlife or Priority Habitats of Rare Species.

REQUEST FOR VARIANCE FROM THE AMESBURY WETLAND REGULATIONS

Mr. Manseau requests a variance from the Amesbury Wetland Regulations (AWR 21.4 – Piers) for the existing dock off the edge of his property in Lake Attitash. The dock has an existing, approved Chapter 91 License (see **Attachment E – AWR Waiver Request** for a copy of the license and waiver request) for this structure.

In addition, Mr. Manseau requests a variance from the Amesbury Wetland Regulations (AWR 21.3 – Landscaping) for the proposed addition of the pervious paver walkway to the top of the existing stairs to the dock. The pervious paver walkway will reduce cumulative erosion impacts to the 25-foot No Disturb Zone through stabilization of soils. In addition, creation of the walkway will be completed with pavers to allow for infiltration of rainwater (see **Attachment E – AWR Waiver Request**). In addition, Mr. Manseau also requests a variance under AWR 21.3 for installation of the aluminum fence along the top of slope, to provide protection from accidental falls down the slope by young children. The fence will allow for the passage of wildlife and floodwaters.

CONCLUSIONS

GZA has reviewed and assessed the project activities Subject to Protection and/or Jurisdiction under the Massachusetts Wetlands Protection Act, the MassDEP Water Quality Certification, the federal Clean Water Act and the Amesbury Wetland Regulation Bylaw on or within 100 feet of Lake Attitash. Proposed impacts will be limited to the Bank of Lake Attitash, the 100-foot Buffer Zone and the Amesbury 25-foot No Disturb Zone. See Table 1 – Summary of Total Area Impacts, below.



Table No. 1 – Summary of Total Area Impacts

Resource Area Impact	Reconstructed Wall	Pervious Paver Patio	Pervious Paver Walkway	Stairs to Existing Dock	Total Impacts to 100-foot Buffer Zone	Total Impacts to 25-foot No-Disturb Zone
25-foot No Disturb Zone	130 SF (temp)	--	29 SF	48 SF	--	130 SF (temp) 77 SF (perm)
100-foot Buffer Zone	130 SF (temp)	755 SF	29 SF	48 SF	130 SF (temp) 832 SF (perm)	--
Bank	--	--	--	3.5 linear feet	--	--

In addition, conversion of the existing slope area to a Buffer Garden, including treatment and removal of invasive species and installation of native shrubs and herbaceous plantings, would improve the wildlife habitat function of the slope and provide for additional pollinator habitat along the shoreline of Lake Attitash. Please contact Kimberly Degutis at GZA at (781) 278-5852 if you have any questions or require additional information regarding this application. We look forward to working with the Conservation Commission during the permitting process.

Sincerely,

GZA/GEOENVIRONMENTAL, INC.


Kimberly K. Degutis, PWS, CESCL
Senior Project Manager


Daniel M. Nitzsche, CPESC, CESWWI
Consultant/Reviewer


Stephen L. Lecco, A.I.C.P., C.E.P.
Associate Principal

Attachments: WPA-3 Form
Figure 1 – Site Locus
Attachment A – Limitations
Attachment B - Representative Site Photographs
Attachment C – Permit Plan
Attachment D – Example Materials
Attachment E – AWR Waiver Request
Attachment F – Original NOI Application



WPA-3 Form



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

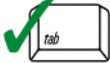
Document Transaction Number

Amesbury

City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

54 Lake Attitash Road

a. Street Address

Amesbury

b. City/Town

01913

c. Zip Code

Latitude and Longitude:

59

f. Assessors Map/Plat Number

42.851107

d. Latitude

-70.973669

e. Longitude

22

g. Parcel /Lot Number

2. Applicant:

Robert

a. First Name

Manseau

b. Last Name

Manseau Family Revocable Trust

c. Organization

54 Lake Attitash Road

d. Street Address

AMESBURY

e. City/Town

MA

f. State

01913

g. Zip Code

978-807-9651

h. Phone Number

i. Fax Number

robertmanseau@comcast.net

j. Email Address

3. Property owner (required if different from applicant): ☐ Check if more than one owner

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Kimberly

a. First Name

Degutis

b. Last Name

GZA GeoEnvironmental Inc

c. Company

249 Vanderbilt Ave

d. Street Address

Norwood

e. City/Town

MA

f. State

02062

g. Zip Code

781-278-5852

h. Phone Number

i. Fax Number

kimberly.degutis@gza.com

j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

110.00 + 110.00 Bylaw

a. Total Fee Paid

42.50

b. State Fee Paid

67.50 + 110.000 bylaw

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

Reconstruction of existing stone retaining wall, installation of pervious paver patio and walkway, installation of steel fence and reconstruction of existing wood stairs.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> Other | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☒ No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Essex South

a. County

37756

c. Book

b. Certificate # (if registered land)

105

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- ☐ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- ☒ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input checked="" type="checkbox"/> Bank	3.5 1. linear feet	0 2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

- ☐ 25 ft. - Designated Densely Developed Areas only
- ☐ 100 ft. - New agricultural projects only
- ☐ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? ☒ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☒ Yes ☐ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	<div>1. square feet</div> <div>2. cubic yards dredged</div>	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	a. square feet of BVW	b. square feet of Salt Marsh

5. ☐ Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. ☐ Yes ☒ No **If yes, include proof of mailing or hand delivery of NOI to:**

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

9/2021

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

Amesbury

City/Town

C. Other Applicable Standards and Requirements (cont'd)

- (c) ☐ MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) ☐ Vegetation cover type map of site
- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. ☒ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

Amesbury

City/Town

C. Other Applicable Standards and Requirements (cont'd)

Online Users:

Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 - a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
 - b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
 - a. ☒ Yes ☐ No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
 - a. ☐ Yes ☒ No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 - a. ☐ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
 1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. ☐ A portion of the site constitutes redevelopment
 3. ☐ Proprietary BMPs are included in the Stormwater Management System.
 - b. ☒ No. Check why the project is exempt:
 1. ☒ Single-family house
 2. ☐ Emergency road repair
 3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☐ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☐ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

Amesbury

City/Town

D. Additional Information (cont'd)

3. ☐ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

Conservation Permit Plan at 54 Lake Attitash Road in Amesbury, MA

a. Plan Title

Atlantic Engineering

John Paulson PLS31725

b. Prepared By

c. Signed and Stamped by

April 9, 2021 Rev June 22 and Sept 25,
2021

1=10

e. Scale

f. Additional Plan or Document Title

g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☐ Attach Stormwater Report, if needed.

E. Fees

1. ☐ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2154

2. Municipal Check Number

4/13/2021

3. Check date

2155

4. State Check Number

4/13/2021

5. Check date

Robert

6. Payor name on check: First Name

Manseau

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

Amesbury

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Robert Mansour

1. Signature of Applicant

9-28-21

2. Date

[Signature]

3. Signature of Property Owner (if different)

4. Date

9/28/21

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

X284346

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

54 Lake Attitash Road

a. Street Address

Amesbury

b. City/Town

42.50

d. Fee amount

c. Check number

2. Applicant Mailing Address:

Robert

a. First Name

Manseau

b. Last Name

Manseau Family Revocable Trust

c. Organization

54 Lake Attitash Road

d. Mailing Address

Amesbury

e. City/Town

MA

f. State

01913

g. Zip Code

978-807-9651

h. Phone Number

i. Fax Number

robertmanseau@comcast.net

j. Email Address

3. Property Owner (if different):

Same

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

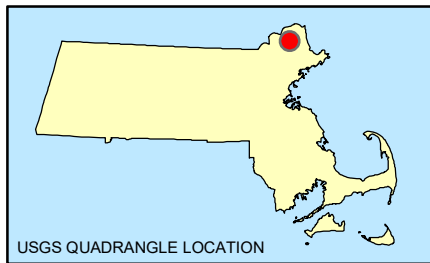
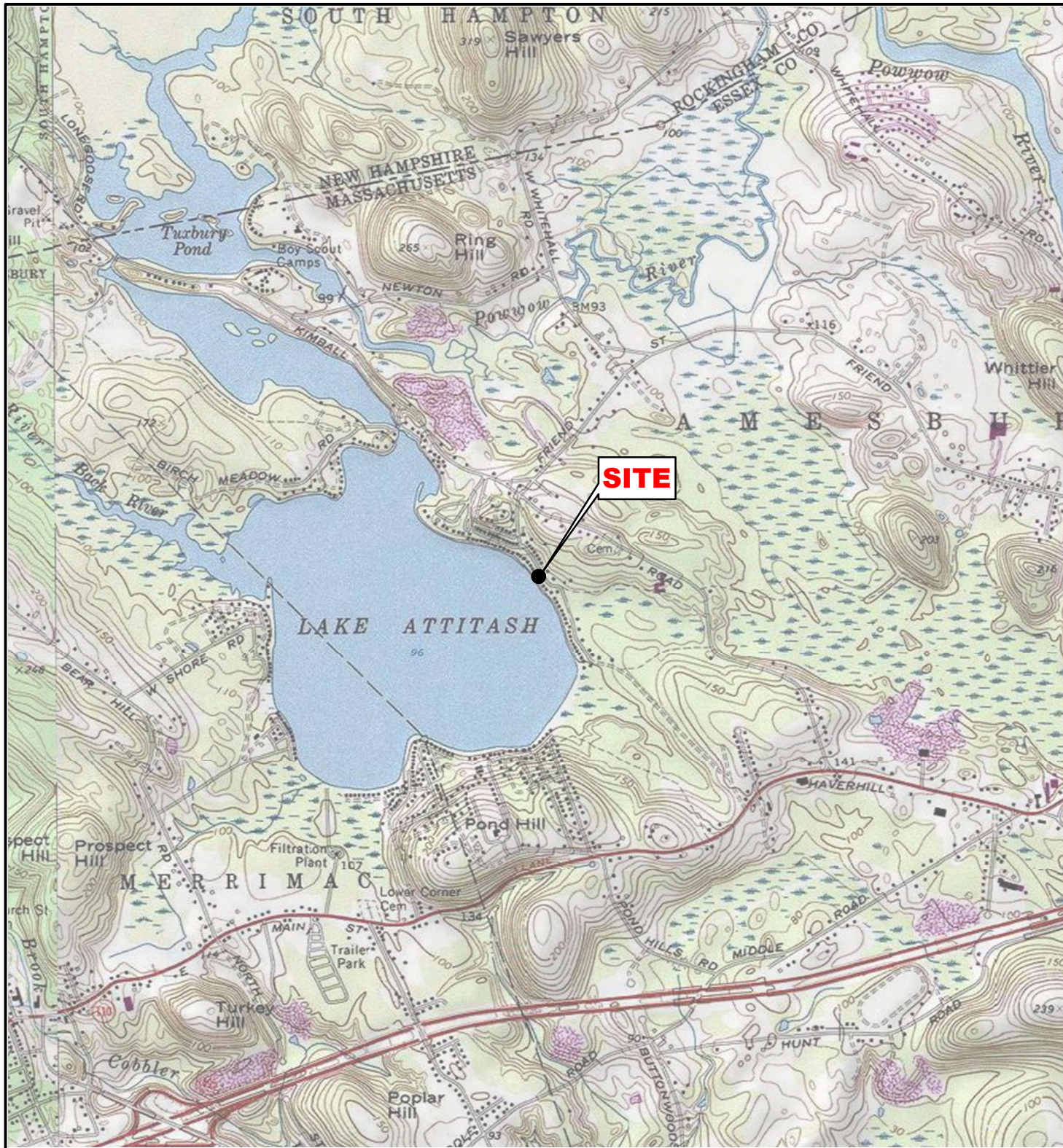
Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



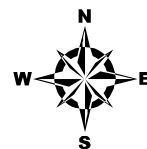
Figures



SOURCE : THIS MAP CONTAINS THE NATIONAL GEOGRAPHIC SOCIETY, I-CUBED ONLINE USA TOPOGRAPHIC MAP SERVICE, COPYRIGHT:© 2013. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.



Data Supplied by :



PROJ. MGR.: KKD
DESIGNED BY: KKD
REVIEWED BY: DN

DATE: 09-27-2021

SITE LOCUS

54 LAKE ATTITASH ROAD
AMESBURY, MASSACHUSETTS

JOB NO.
01.0175290.00

FIGURE NO.
1



Appendix A – Limitations



USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) has prepared this report on behalf of, and for the exclusive use of Robert Manseau ("Client") for the stated purpose(s) and location(s) identified in the report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not identified in the agreement, for any use, without our prior written permission, shall be at that party's risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Report and/or proposal and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the data gathered and observations made during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made.

LIMITS TO OBSERVATIONS

4. Natural resource characteristics are inherently variable. Biological community composition and diversity can be affected by seasonal, annual or anthropogenic influences. In addition, soil conditions are reflective of subsurface geologic materials, the composition and distribution of which vary spatially.
5. The observations described in this report were made on the dates referenced and under the conditions stated therein. Conditions observed and reported by GZA reflect the conditions that could be reasonably observed based upon the visual observations of surface conditions and/or a limited observation of subsurface conditions at the specific time of observation. Such conditions are subject to environmental and circumstantial alteration and may not reflect conditions observable at another time.
6. The conclusions and recommendations contained in this report are based upon the data obtained from a limited number of surveys performed during the course of our work on the site, as described in the Report. There may be variations between these surveys and other past or future surveys due to inherent environmental and circumstantial variability.

RELIANCE ON INFORMATION FROM OTHERS

7. Preparation of this Report may have relied upon information made available by Federal, state and local authorities; and/or work products prepared by other professionals as specified in the report. Unless specifically stated, GZA did not attempt to independently verify the accuracy or completeness of that information.

COMPLIANCE WITH REGULATIONS AND CODES

8. GZA's services were performed to render an opinion on the presence and/or condition of natural resources as described in the Report. Standards used to identify or assess these resources as well as regulatory jurisdiction, if any, are stated in the Report. Standards for identification of jurisdictional resources and regulatory control over them may vary between governmental agencies at Federal, state and local levels and are subject to change over time which may affect the conclusions and findings of this report.



NEW INFORMATION

9. In the event that the Client or others authorized to use this report obtain information on environmental regulatory compliance issues at the site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this work, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

10. GZA recommends that we be retained to provide further investigation, if necessary, which would allow GZA to (1) observe compliance with the concepts and recommendations contained herein; (2) evaluate whether the manner of implementation creates a potential new finding; and (3) evaluate whether the manner of implementation affects or changes the conditions on which our opinions were made.



Appendix B – Representative Site Photographs



Photographic Log

Client Name: Robert Manseau		Site Location: 54 Lake Attitash Road Amesbury, Massachusetts	Project No. 01.0175290.00
Photo No. 1	Date: 8/17/21		
Direction Photo Taken: Northwest			
Description: View looking along shoreline to the north of the dock, note stone wall along toe of slope. Also note wood stairs to dock.			

Photo No. 2	Date: 8/17/21	
Direction Photo Taken: Southeast		
Description: View looking along shoreline to the south of the dock, note stone wall along toe of slope. Also note wood stairs to dock.		



Photographic Log


Client Name: Robert Manseau		Site Location: 54 Lake Attitash Road Amesbury, Massachusetts	Project No. 01.0175290.00
Photo No. 3	Date: 8/17/21	 A vertical photograph showing a stone wall along a slope. The wall is made of large, dark stones. In the foreground, there are green plants and yellow flowers. In the background, there are trees and a building.	
Direction Photo Taken: Northwest			
Description: View along toe of slope. Note stone wall in fore and midground. Also note several stones have fallen from the wall.			

Photo No. 4	Date: 8/17/21	 A horizontal photograph showing a stone wall along a slope. The wall is made of large, dark stones. In the foreground, there are green plants and yellow flowers. In the background, there are trees and a building.
Direction Photo Taken: South		
Description: View along toe of slope showing stone wall.		



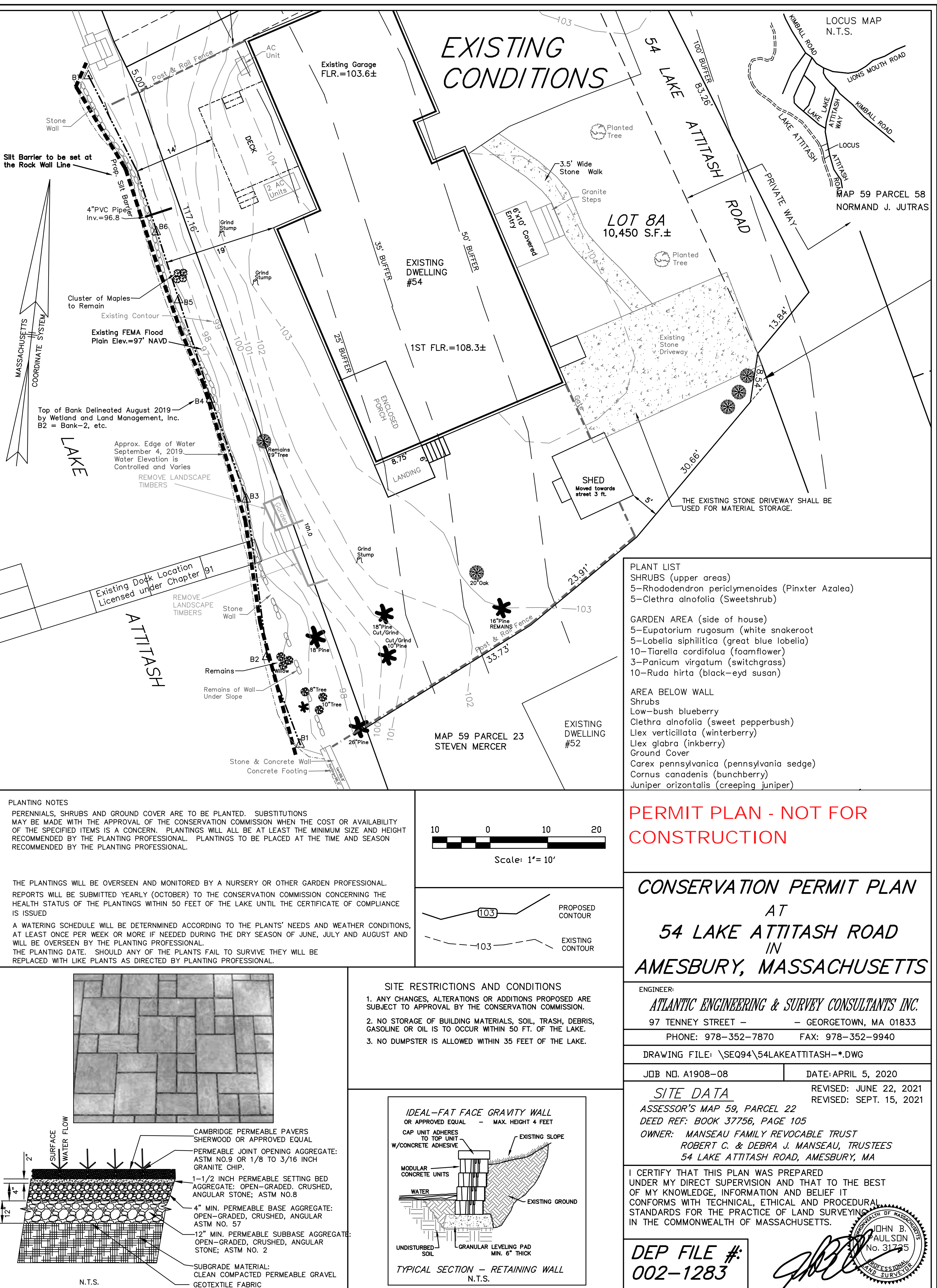
Photographic Log

Client Name: Robert Manseau		Site Location: 54 Lake Attitash Road Amesbury, Massachusetts	Project No. 01.0175290.00
Photo No. 5	Date: 8/17/21		
Direction Photo Taken: East			
Description: View towards Lake Attitash Road and area of proposed pervious paver installation.			

Photo No. 6	Date: 8/17/21	
Direction Photo Taken: West		
Description: View facing edge of proposed pervious paver installation and proposed pervious paver walkway towards stairs to dock.		



Appendix C – Permit Plan





Appendix D – Example Materials



GATOR AQUA ROCK

PERMEABLE CHIPS MADE EASY



DESCRIPTION

GATOR AQUA ROCK is manufactured to meet ASTM No.9 requirements for permeable paver joint units. The calibrated gradation obtained from the fractured high-strength granite makes it the ideal product for the bedding course & jointing material to collect surface water run-off and help stabilize interlocking paver surfaces.

FEATURES

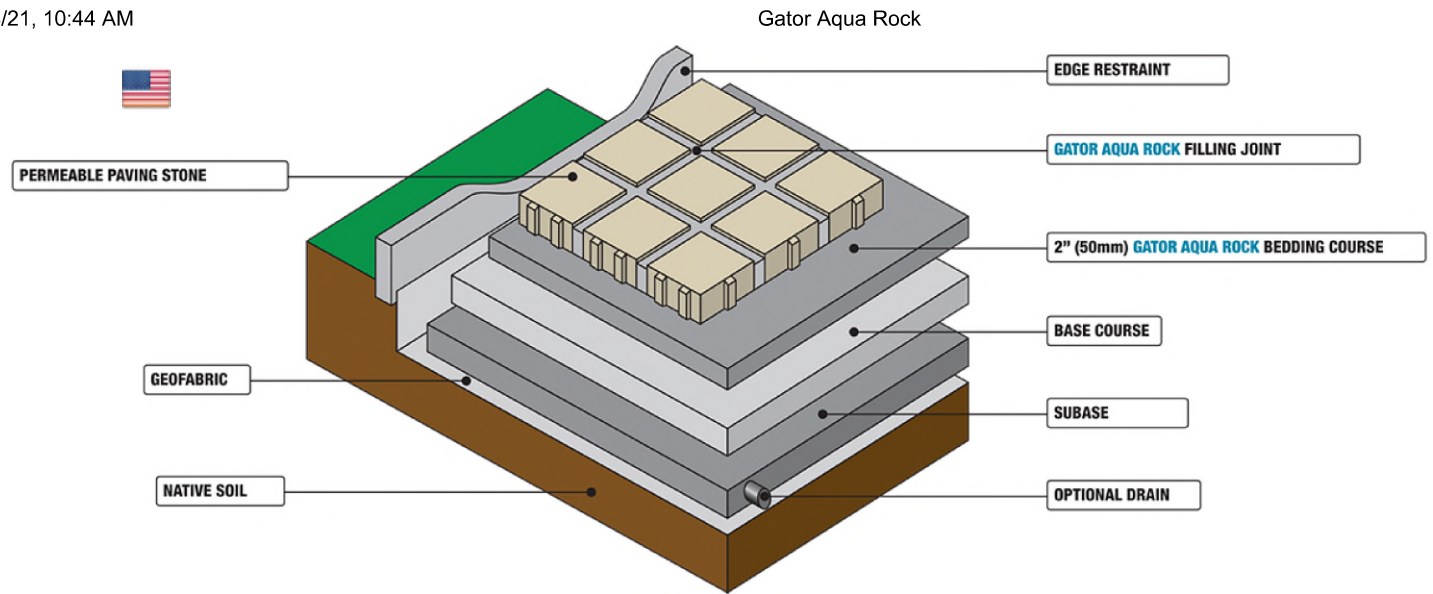
- Graded to meet ASTM No.9
- High strength granite stone for long-term use
- Helps collect roof & surface water run-off
- Helps prevent erosion
- Reduction of storm water rate
- Calibrated for the majority of permeable pavers
- Long-term high infiltration performance
- 2,200 lb Super Sack available for large applications.

IDEAL FOR

Driveways, Parking Lots, Patios & Walkways
Drainage applications
Bedding and jointing material
Residential and commercial applications

ASTM NO.9

SIEVE SIZE	ASTM NO.9
3/8in. (9.5mm)	100



LIMITED WARRANTY

Alliance Designer Products Inc. cannot guarantee results as it has no control over surface preparation and product application. If this product is proven to be defective, on the condition that it was applied pursuant to the required method of application and surface preparation, the sole obligation of Alliance Designer Products Inc. is to refund the purchase price. Proof of purchase is required for any claim. Alliance Designer Products Inc. shall not be liable for any other damages whatsoever, direct or consequential. To the extent permitted by law, Alliance Designer Products Inc. excludes any implied warranty of quality, merchantability or fitness for purpose.

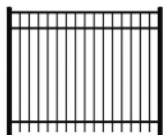
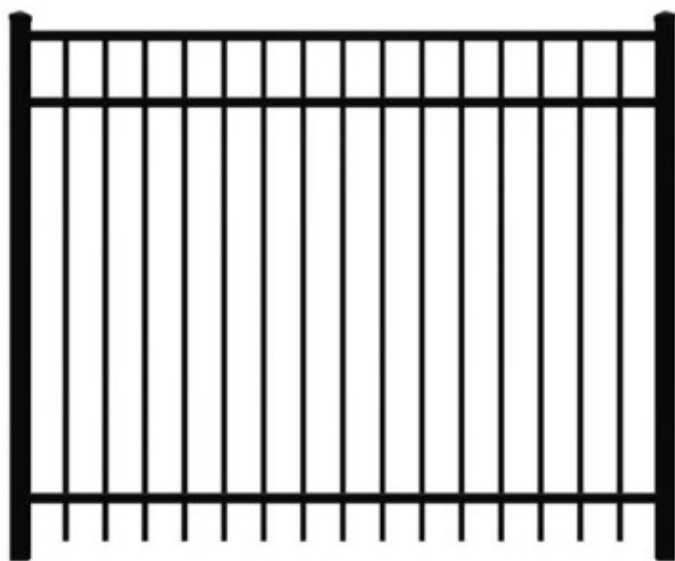
📞 Contact: 888-932-7958 | ✉ Online Support: sales@fencingdirect.com

Account ▾

🛒 My Cart – 0 items



[Home](#) / [Products](#) / 4' H x 6' W Bradford Aluminum Fence Panel Black



4' H x 6' W Bradford Aluminum Fence Panel Black

BA73002245

~~\$130.88~~ \$98.16
(You Save 25%)

4' H x 6' W Bradford Aluminum Fence Panel Black. Featuring a screw-less hidden fastener system, with 1" x 1" rails and 5/8" pickets. Panels can be adjusted for grades and rack up to 33" per 6' panel. Posts sold separately from panels. [Read Full Description...](#)

Quantity

ADD TO CART

ADD ALL TO CART

PRODUCT DESCRIPTION

PRODUCT FAQ

PRODUCT DOCUMENTS

4' H x 6' W Bradford Aluminum Fence Panel Black. Featuring a screw-less hidden fastener system, with 1" x 1" rails and 5/8" pickets. Panels can be adjusted for grades and rack up to 33" per 6' panel.

Posts sold separately from panels.

Product SKU: BA73002245

HOME



WHY US?






SHERWOOD COLLECTION with ARMORTEC®

Virtual Assistant

Each group of Cambridge Shapes and Design Kits with ArmorTec in this collection possesses quality, architectural surface finishes. The Collection is comprised of Ledgestone 3 Pc. Design Kit, Ledgestone 3 Pc. Design Kit and 18 x 18, and QuartzTec™.

-  Cambridge Products Color Selection Guide
-  Design Gallery Photos of The Sherwood Collection

Shapes & Available Color Choices:

Shape	Description	Available Colors
	<div>Ledgestone XL 24 x 36 Onyx/Natural shown</div> <div> 24 x 36 Cube Info Card</div> <div>English</div>	<div> View Colors</div>

Landcare Stone

Madbury, NH

603-749-9797

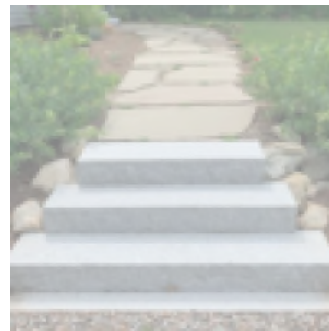
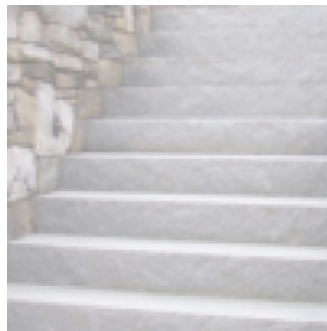
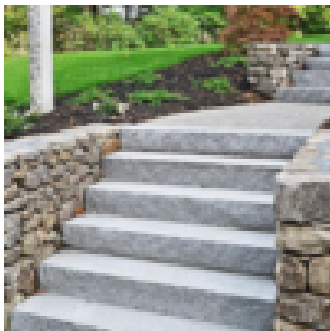
Stratham Hill Stone

Stratham, NH

603-431-0088

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/ [SPLIT-FACED WOODBURY GRANITE STEPS AND LANDINGS](#)

Split-Faced Woodbury Granite Steps and Landings



RELATED PRODUCTS



**Rock-Face Caledonia
Granite Steps and Landings**

\$48.76 per sq. ft.

[SELECT OPTIONS](#)



**Rock-Face Woodbury
Granite Steps and Landings**

\$52.00 per sq. ft.

[SELECT OPTIONS](#)



Antique Granite Steps

\$54.00 per sq. ft.

[SELECT OPTIONS](#)

LandCare Associates, Inc.

282 Knox Marsh Rd.

Madbury, NH 03823

Telephone: 603-749-9797

Fax: 603-743-4540

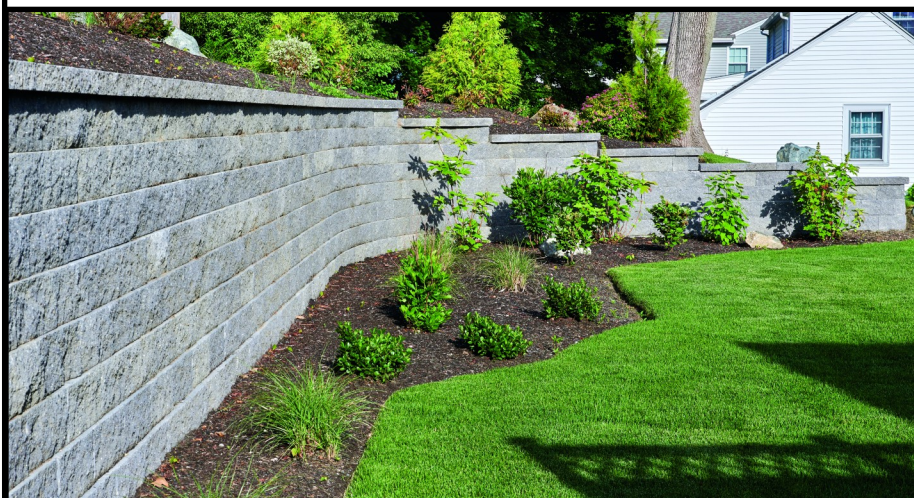
Stratham Hill Stone

313 Portsmouth Ave (RTE. 33).

Stratham, NH 03885

Telephone: (603) 431-0088

GravityStone® Fat Face & Fat Face 2/3 Scored



Fat Face

Part of the GravityStone family of wall systems, Fat Face and Fat Face 2/3 Scored provide a strong, durable, and attractive retaining wall solution for a variety of site conditions. Fat Face is our original split face unit. Fat Face 2/3 Scored is a three-piece set. Two units have a chamfered score located 2/3 along the length of the split face; the third unit an unscored split face. All three have well-defined chamfers molded into each end providing a distinctive sculptured appearance.

Both styles are one square foot blocks. The open-core design optimizes interlock from one course to the next with a "rock-to-rock" connection. For additional design flexibility, both Fat Face and Fat Face 2/3 Scored can be integrated together and used in combination with the GravityStone Modular System.



Fat Face

Left Score

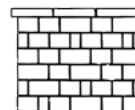
Right Score

Fat Face - 2/3 Scored

Applications



Commercial / Municipal



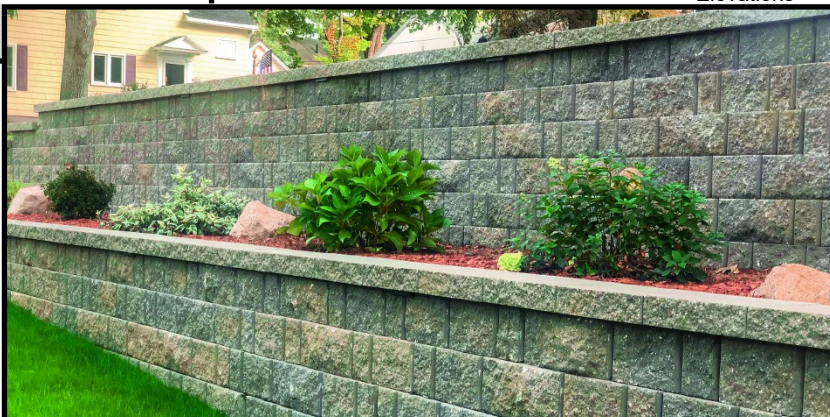
Retaining Walls



Stairs, Steps & Elevations

Composition & Performance

Fat Face and Fat Face 2/3 Scored are produced under controlled factory conditions, molded from a cement-rich mixture blended with select aggregates and pure iron oxide pigments formed under extreme pressure and vibration. Both style can create straight, concave, or convex retaining walls in either a vertical or battered configuration using a unique reversible alignment plug. When used with geogrid, walls as tall as 20' and higher can be constructed.



Fat Face - 2/3 Scored

Physical Characteristics

Ideal's wall products meet or exceed North American industry standards, including ASTM C1372 Standard Specification for Drycast Segmental Retaining Wall Units. Strict quality control ensures consistent strength and durability.

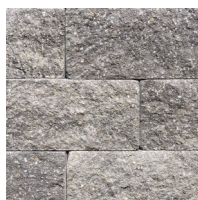
Fat Face:	Single standard unit
Face Face - 2/3 Scored:	2 scored units, 1 standard unit
Dimensions:	18" l x 8" h x 11.25" d
Weight:	75 lbs
Face Area:	1 sf/unit
Corner Unit:	15" l x 8" h x 6" d
Compressive Strength:	4500 psi minimum
Water Absorption:	7% maximum
Dimensional Tolerance:	± 1/8"
Wall Batter:	Vertical to 4.5° (3/4" per foot)



Granite Gray
Fat Face &
2/3 Scored



Vineyard Blend
Fat Face &
2/3 Scored



Quarry Blend
Fat Face

GravityStone® Fat Face & Fat Face 2/3 Scored

Design Considerations

Ideal provides general information on design and construction. In all cases, the user should exercise diligence in determining its suitability for the site. Walls 4' and higher, terraced walls, and sites with weak soils, slopes and surcharges require special consideration and construction techniques, including the use of geogrid. These conditions require the services of a qualified soils engineer and a professional contractor familiar with wall construction. Always comply with local building codes.

Fat Face Installation

Leveling Pad

Prepare a foundation by excavating and filling with a minimum of 6" of crushed stone, ensure it is level and compacted.

Laying the First Course

Begin the first course by starting at the lowest elevation. After placing a string line, position each Face block along the line, level side to side and front to back, using a rubber mallet to seat the block. Place perforated pipe behind.

Placing Plugs

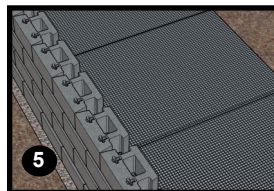
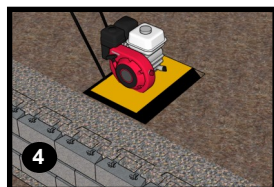
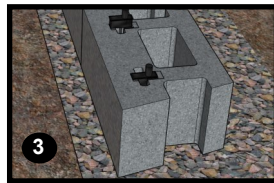
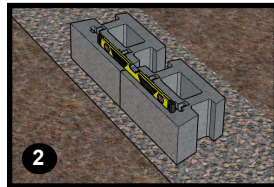
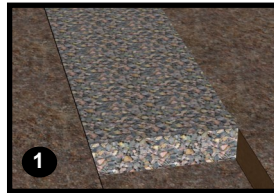
After completing each course, place a Reversible Alignment Plug into each of the two plug cores cast into the top of each block. Placing the Plug in the forward position will create a vertical wall, reversing the plug will create a 1/12 {4.5 degree} batter.

Backfill/Compaction

After reaching a maximum of three courses, backfill the GravityStone units with the specified aggregate, filling the core of the face units and an additional 12" behind. Compact the soil with a vibratory compactor to the proper density. Sweep debris from the top of the blocks before starting the next block course.

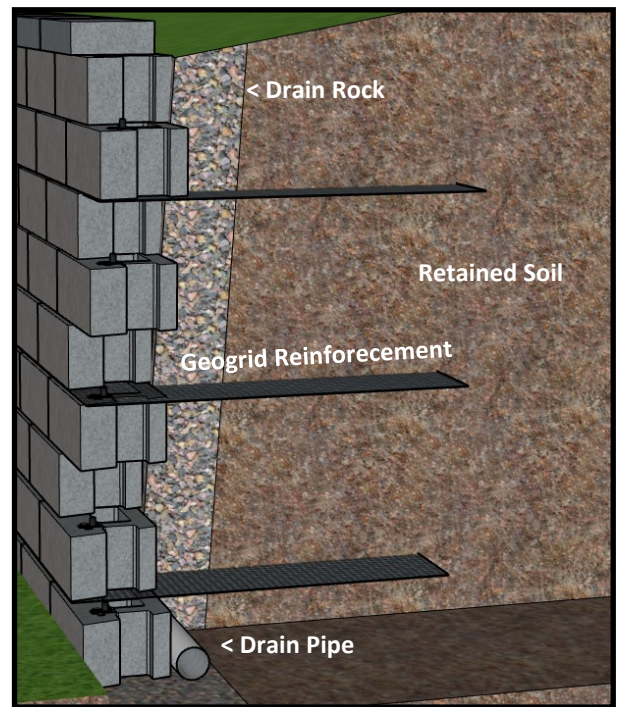
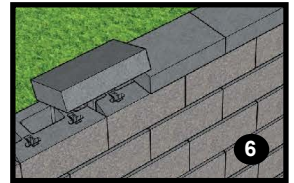
Placing Geogrid

Following the engineer's design, place the Geogrid at the proper course and to the specified length. Make sure that the Geotextile is in full contact with the soil.



Capping the Wall

Once the body of the wall is complete, permanently affix a Cap Block to the Face Block using an approved concrete adhesive parallel to the wall face on both sides of the plug holes. Place the Cap Block onto the adhesive, making sure of its proper position.



Always wear proper safety equipment when cutting or sawing concrete products.

A white deposit known as efflorescence may appear naturally on any concrete or masonry product. It does not affect the structural integrity and will dissipate over time. Efflorescence is not indicative of a flawed product. For more information, ask for our Efflorescence Advisory.

Technical Information & Services

We recommend **WSB Design** software, **Ideal's** Contractor's Guide to Installing SRWs, and **NCMA's** SRWs Best Practice Guide as resources for design and technical information. We provide design consultation, including free Preliminary Engineering Design Service, specification assistance and job-site quality review.



Westford & Waltham, MA
781.894.3200 • info@IdealConcreteBlock.com
www.IdealConcreteBlock.com

Fat Face Core and GravityStone are a licensed product of WestBlock Systems, Inc. GravityStone and WestBlock Systems are registered trademarks of WestBlock Systems, Inc. U.S. Patent Nos. 5,350, 256, 5,688, 078, D468,450, D475,143 and patents pending



WESTBLOCK SYSTEMS®



Appendix E – AWR Waiver Request



Amesbury

CONSERVATION COMMISSION
Tel: (978) 388-8110
Fax: (978) 388-6727

62 Friend Street
Second Floor
Amesbury, MA 01913

Amesbury Conservation Commission Waiver Request Form

All projects submitted for review to the Amesbury Conservation Commission should comply with the Amesbury Wetlands Ordinance and its implementing regulations as well as the Massachusetts Wetlands Act and its implementing regulations (310 CMR § 10.00). If you cannot comply with any portion of the Amesbury Wetlands Regulations you should file this waiver request identifying any areas where your proposed project is not in full compliance.

Project: 54 Lake Attitash Road

Applicant: Robert Manseau

Applicant's Address: 54 Lake Attitash Road, Amesbury, MA 01913

Contact Information: Telephone: 978.807.9651

Email: bobmanseau@comcast.net

I hereby request a waiver pursuant to the Amesbury Wetlands Regulations § 7.13 from the following section(s)

AWR 21.3 - Landscaping

AWR 21.4 - Piers

of the aforementioned regulations. The reason(s) for the waiver request is/are (use additional sheet if necessary):

21.3 - Pervious pavers to allow infiltration of rainwater while stabilizing soils in area of heavy foot traffic at top of slope; Aluminum fence
21.4 - Pier for existing, lawfully located dock structure in Lake Attitash

Robert Manseau 9-28-21
Applicant signature Date

4
10.

2
& PLANS

04/15/98 11:34 inst. 296
BK 14737 PG 299

The Commonwealth of Massachusetts

No. 6802



Whereas,
John & Sandra Paulson

of -- Amesbury --, in the County of -- Essex -- and Commonwealth
aforesaid, has applied to the Department of Environmental Protection for
license to -- maintain existing docks and existing retaining wall ----

and has submitted plans of the same; and whereas due notice of said
application, has been given, as required by law, to the -- Board of
Selectmen -- of the -- Town of Amesbury; -----

NOW, said Department, having heard all parties desiring to be heard, and
having fully considered said application, hereby, subject to the
approval of the Governor, authorizes and licenses the said

-- John & Sandra Paulson --, subject to the provisions of the
ninety-first chapter of the General Laws, and of all laws which are or
may be in force applicable thereto, to -- maintain existing docks and
existing retaining wall -----

in and over the waters of -- Lake Attitash -- in the -- Town -- of --
Amesbury -- and in accordance with the locations shown and details
indicated on the accompanying DEP License Plan No. 6802, (2 sheets).

JOHN PAULSON
54 LAKE ATTITASH ROAD
AMESBURY MA 01913

PRINTED ON RECYCLED PAPER

License No. 6802

Page 2

The structures hereby authorized shall be limited to the following uses: to provide noncommercial docking and boating access to navigable waters and shoreline stabilization for the protection of existing structures.

SPECIAL WATERWAYS LICENSE CONDITIONS

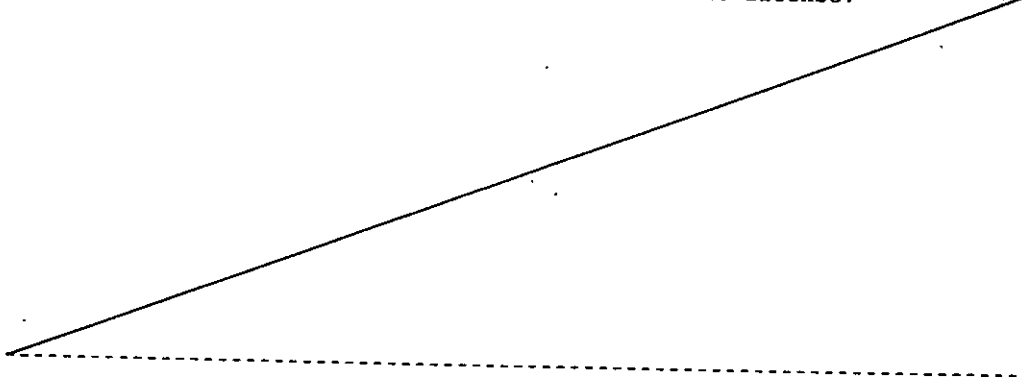
In accordance with any license condition, easement, or public right of lateral passage that exists in the area of the subject property lying below the ordinary high water mark, the Licensee shall allow the public in the exercise of such rights to pass freely over all structures within such area.

Accordingly, the licensee shall place and maintain, in good repair, a public access sign on each side of the docks authorized herein, adjacent to the ordinary highwater shoreline. Said signs, provided by the Department, shall be posted immediately upon receipt. Nothing in this condition shall be construed as preventing the licensee from excluding the public from portions of said structures not intended for lateral access.

The project authorized herein has been completed in conformance with the accompanying License Plan. The issuance of this License, therefore, fulfills the Licensee's obligation to obtain a Certificate of Compliance pursuant to 310 CMR 9.19.

This license will expire ninety-nine (99) years from the date of issuance.

Please see page 3 for additional conditions to this license. -----



Duplicate of said plan, number 6802 is on file in the office of said Department, and original of said plan accompanies this License, and is to be referred to as a part hereof.

STANDARD WATERWAYS LICENSE CONDITIONS

1. Acceptance of this Waterways License shall constitute an agreement by the Licensee to conform with all terms and conditions stated herein.
2. This License is granted upon the express condition that any and all other applicable authorizations necessitated due to the provisions hereof shall be secured by the Licensee prior to the commencement of any activity or use authorized pursuant to this License.
3. Any change in use or any substantial structural alteration of any structure or fill authorized herein shall require the issuance by the Department of a new Waterways License in accordance with the provisions and procedures established in Chapter 91 of the Massachusetts General Laws. Any unauthorized substantial change in use or unauthorized substantial structural alteration of any structure or fill authorized herein shall render this Waterways License void.
4. This Waterways License shall be revocable by the Department for noncompliance with the terms and conditions set forth herein. This license may be revoked after the Department has given written notice of the alleged noncompliance to the Licensee and those persons who have filed a written request for such notice with the Department and afforded them a reasonable opportunity to correct said noncompliance. Failure to correct said noncompliance after the issuance of a written notice by the Department shall render this Waterways License void and the Commonwealth may proceed to remove or cause removal of any structure or fill authorized herein at the expense of the Licensee, its successors and assigns as an unauthorized and unlawful structure and/or fill.
5. The structures and/or fill authorized herein shall be maintained in good repair and in accordance with the terms and conditions stated herein and the details indicated on the accompanying license plans.
6. Nothing in this Waterways License shall be construed as authorizing encroachment in, on or over property not owned or controlled by the Licensee, except with the written consent of the owner or owners thereof.
7. This Waterways License is granted subject to all applicable Federal, State, County, and Municipal laws, ordinances and regulations including but not limited to a valid final Order of Conditions issued pursuant to the Wetlands Protection Act, G.L. Chapter 131, s.40.
8. This Waterways License is granted upon the express condition that the use of the structures and/or fill authorized hereby shall be in strict conformance with all applicable requirements and authorizations of the DEP, Division of Water Pollution Control.
9. This License authorizes structure(s) and/or fill on:
 - Private Tidelands. In accordance with the public easement that exists by law on private tidelands, the licensee shall allow the public to use and to pass freely upon the area of the subject property lying between the high and low water marks, for the purposes of fishing, fowling, navigation, and the natural derivatives thereof.
 - Commonwealth Tidelands. The Licensee shall not restrict the public's right to use and to pass freely, for any lawful purpose, upon lands lying seaward of the low water mark. Said lands are held in trust by the Commonwealth for the benefit of the public.
 - X a Great Pond of the Commonwealth. The Licensee shall not restrict the public's right to use and to pass freely upon lands lying seaward of the high water mark for any lawful purpose.

No restriction on the exercise of these public rights shall be imposed unless otherwise expressly provided in this license.
10. Unless otherwise expressly provided by this license, the licensee shall not limit the hours of availability of any areas of the subject property designated for public passage, nor place any gates, fences, or other structures on such areas in a manner that would impede or discourage the free flow of pedestrian movement thereon.

License No. 6802

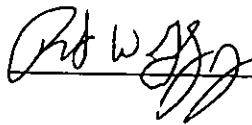
Page 4

~~The amount of tidewater displaced by the work hereby authorized has been ascertained by said Department, and compensation thereof has been made by the said -- by paying into the treasury of the Commonwealth -- two dollars and zero cents (\$2.00) -- for each cubic yard so displaced, being the amount hereby assessed by said Department (\$0.00 cu. yds. -- \$0.00).~~

Nothing in this License shall be so construed as to impair the legal rights of any person. This License shall be void unless the same and the accompanying plan are recorded within 60 days from the date hereof, in the Registry of Deeds for the County of -- Essex -----

IN WITNESS WHEREAS, said Department of Environmental Protection have hereunto set their hands this twelfth day of September in the year nineteen hundred and ninety-seven.

For Commissioner



Department of
Environmental
Protection

As Section Chief



THE COMMONWEALTH OF MASSACHUSETTS

This license is approved in consideration of the payment into the treasury of the Commonwealth by the said -- John & Sandra Paulson --

the further sum of -- zero dollars and zero cents (\$0.00)

the amount determined by the Governor as a just and equitable charge for rights and privileges hereby granted in the land of the Commonwealth.

BOSTON,

Approved by the Governor.



Acting Governor

PLAN BOOK 324 PLAN 82

MASS. REGISTRY OF DEEDS, 50.05T.
SALMON, MASS.

Received April 15 1998

with John & Sandra Paulson
Commonwealth of Massachusetts
Rec B 1437P.299

Attest:

John B. Paulson

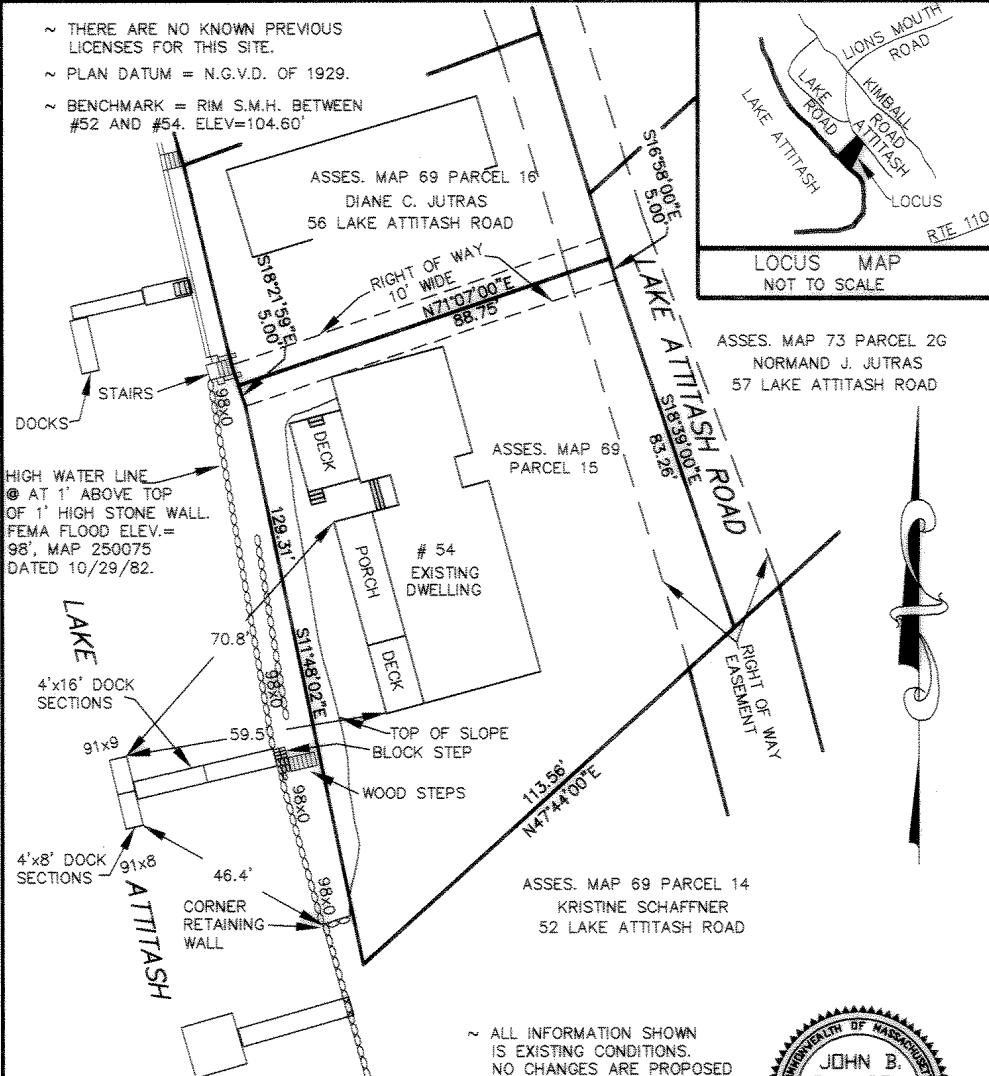
Register of Deeds

296

I CERTIFY THAT THIS PLAN IS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION & BELIEF I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, & THE LINES OF STREETS & WAYS SHOWN ARE THOSE OF PUBLIC & PRIVATE STREETS ALREADY ESTABLISHED, & THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN.

- ~ THERE ARE NO KNOWN PREVIOUS LICENSES FOR THIS SITE.
- ~ PLAN DATUM = N.G.V.D. OF 1929.
- ~ BENCHMARK = RIM S.M.H. BETWEEN #52 AND #54. ELEV=104.60'



PLAN ACCOMPANYING PETITION
OF: JOHN & SANDRA PAULSON

TO MAINTAIN EXISTING DOCKS, STAIRS AND WALLS AFTER THE FACT
AND FOR MAINTENANCE IN AND OVER THE WATERS OF LAKE ATTITASH.

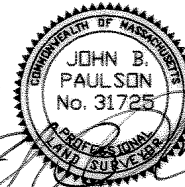
AMESBURY, MASSACHUSETTS

SCALE: 1"=30' DATE: SEPT. 15, 1995

ATLANTIC ENGINEERING AND SURVEY
CONSULTANTS, INC.
97 TENNEY STREET GEORGETOWN, MA



~ ALL INFORMATION SHOWN IS EXISTING CONDITIONS. NO CHANGES ARE PROPOSED AS PART OF THIS APPLICATION.



SHEET 1 of 2

LICENSE PLAN NO. 6802

Approved by Department of Environmental Protection
of Massachusetts SEP 12 1997

David M. Wolfe

1096-4624

46002 (11)

PLAN BOOK 324 PLAN 82

Essex Registry of Deeds, Co. Dist.
Salem, Mass.

Received April 15 1998

with Lic. Comm. of
Massachusetts
Rec. B14737 P.299

Attest.

John B. Paulson
Register of Deeds

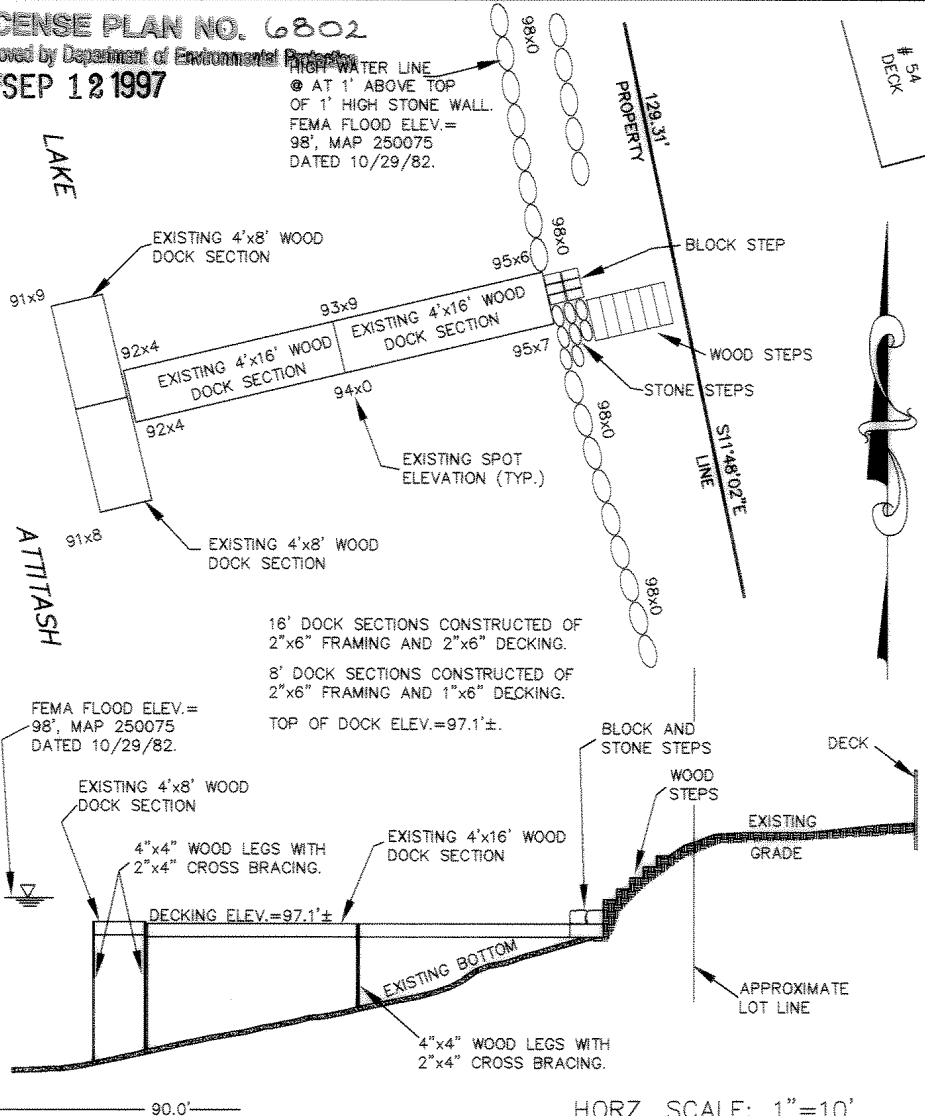
I CERTIFY THAT THIS PLAN IS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION & BELIEF I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, & THE LINES OF STREETS & WAYS SHOWN ARE THOSE OF PUBLIC & PRIVATE STREETS ALREADY ESTABLISHED, & THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN.

LICENSE PLAN NO. 6802

Approved by Department of Environmental Protection

Date: SEP 12 1997



PLAN ACCOMPANYING PETITION
OF: JOHN & SANDRA PAULSON

AMESBURY, MASSACHUSETTS

DATE: SEPT. 15, 1995

ATLANTIC ENGINEERING AND SURVEY
CONSULTANTS, INC.
97 TENNEY STREET GEORGETOWN, MA



HORZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'



SHEET 2 of 2



Appendix F – Original NOI Application



Atlantic Engineering & Survey Consultants, Inc.
97 Tenney Street Georgetown, MA 01833
978-352-7870 • 978-352-9940 (fax) atlantic84@gmail.com

John B. Paulson, P.L.S. President

April 13, 2021

City of Amesbury
Conservation Commission
62 Friend Street
Amesbury, MA 01913

Re: Notice of Intent for Manseau Family Revocable Trust
Site: 54 Lake Attitash Road
Assessor's Map 59, Parcel 22

Dear Commission Members;

As required by the Wetlands Protection Act and the Town of Amesbury Bylaws we hereby submit the attached Notice of Intent Application for work to be performed at the above referenced site.

Included in this submission are the following documents:

- The Application with associated forms and documents. Included in this information:
 - A copy of the Wetland Fee Transmittal Form.
 - Area Locus Map showing the site area.
 - Other assorted documents and maps.
- A Permit Plan by Atlantic Engineering dated April 9, 2021
- Checks as required under the Wetland Protection Act and under the Local Bylaw.

This plan is for improvements to the rear yard area of an existing single family home. They include the construction of a retaining wall, a pervious paver patio and walkways, the removal of 3 trees, the replacement of existing wood steps to the dock with proposed granite steps and cleaning and enhancements along the shoreline including the removal of invasive species and the planting of buffer zone friendly plants and shrubs.

The certified abutters list is also included.

It is our understanding that the legal advertisement for the required hearings will be placed in the local paper by the Owners. It is our wish to be scheduled for a hearing at your earliest scheduled meeting time. Please feel free to call me should you need any additional information.

Sincerely,

John B. Paulson, President

enclosures



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

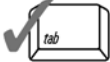
Document Transaction Number

AMESBURY

City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

54 Lake Attitash Road

a. Street Address

AMESBURY

b. City/Town

01913

c. Zip Code

Latitude and Longitude:

59

f. Assessors Map/Plat Number

42.851107

d. Latitude

-70.973669

e. Longitude

22

g. Parcel /Lot Number

2. Applicant:

Robert

a. First Name

Manseau

b. Last Name

Manseau Family Revocable Trust

c. Organization

54 Lake Attitash Road

d. Street Address

AMESBURY

e. City/Town

MA

f. State

01913

g. Zip Code

978-807-9651

h. Phone Number

i. Fax Number

robertmanseau@comcast.net

j. Email Address

3. Property owner (required if different from applicant): ☐ Check if more than one owner

SAME

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

John

a. First Name

Paulson

b. Last Name

Atlantic Engineering & Survey Consultants, Inc.

c. Company

97 Tenney Street

d. Street Address

Georgetown

e. City/Town

MA

f. State

01833

g. Zip Code

978-352-7870

h. Phone Number

978-352-9940

i. Fax Number

atlantic84@gmail.com

j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

110.00 + 110.00 Bylaw

a. Total Fee Paid

42.50

b. State Fee Paid

67.50 + 110.000 bylaw

c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

AMESBURY

City/Town

A. General Information (continued)

6. General Project Description:

Improvements in the yard of a single family home including a retaining wall, a pervious patio and walkways, the removal of 3 trees, construction of replacements steps to the dock and landscape enhancements along the shoreline including removal of invasive species the the planting of buffer zone friendly plants and shrubs.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> Other | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☒ No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Essex South

a. County

37756

c. Book

b. Certificate # (if registered land)

105

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- ☒ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- ☐ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

AMESBURY

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input checked="" type="checkbox"/> Bank	0 1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	0 1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	0 1. square feet 0 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☒ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☒ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☒ Yes ☐ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

AMESBURY

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your
document
transaction
number
(provided on your
receipt page)
with all
supplementary
information you
submit to the
Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet _____ 2. cubic yards dredged _____	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet _____	2. cubic yards beach nourishment _____
e. <input type="checkbox"/> Coastal Dunes	1. square feet _____	2. cubic yards dune nourishment _____
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet _____	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet _____	
h. <input type="checkbox"/> Salt Marshes	1. square feet _____	2. sq ft restoration, rehab., creation _____
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet _____	
	2. cubic yards dredged _____	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet _____	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged _____	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet _____	
4. <input type="checkbox"/> Restoration/Enhancement		
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.		
a. square feet of BVW _____	b. square feet of Salt Marsh _____	
5. <input type="checkbox"/> Project Involves Stream Crossings		
a. number of new stream crossings _____	b. number of replacement stream crossings _____	



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

AMESBURY

City/Town

C. Other Applicable Standards and Requirements

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. ☐ Yes ☒ No **If yes, include proof of mailing or hand delivery of NOI to:**

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

on line _____

b. Date of map _____

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage _____

(b) outside Resource Area

percentage/acreage _____

2. ☐ Assessor's Map or right-of-way plan of site

2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

X287694

Document Transaction Number

AMESBURY

City/Town

C. Other Applicable Standards and Requirements (cont'd)

- (c) ☐ MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) ☐ Vegetation cover type map of site
- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. ☐ Not applicable – project is in inland resource area only b. ☐ Yes ☒ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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AMESBURY

City/Town

C. Other Applicable Standards and Requirements (cont'd)

Online Users:

Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. ☒ Yes ☐ No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. ☐ Yes ☒ No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. ☐ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. ☐ A portion of the site constitutes redevelopment
 3. ☐ Proprietary BMPs are included in the Stormwater Management System.
- b. ☒ No. Check why the project is exempt:
1. ☒ Single-family house
 2. ☐ Emergency road repair
 3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☐ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☐ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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Document Transaction Number

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City/Town

D. Additional Information (cont'd)

3. ☐ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

Conservation Permit Plan at 54 Lake Attitash Road in Amesbury, MA

a. Plan Title

Atlantic Engineering

John Paulson PLS31725

b. Prepared By

c. Signed and Stamped by

April 9, 2021

1=10

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☐ Attach Stormwater Report, if needed.

E. Fees

1. ☐ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2154

4/13/2021

2. Municipal Check Number

3. Check date

2155

4/13/2021

4. State Check Number

5. Check date

Robert

Manseau

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number
X287694
Document Transaction Number
AMESBURY
City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Robert Transeau

1. Signature of Applicant

4/12/2021

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

4/12/2021

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

X284346

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

54 Lake Attitash Road

a. Street Address

Amesbury

b. City/Town

42.50

d. Fee amount

c. Check number

2. Applicant Mailing Address:

Robert

a. First Name

Manseau

b. Last Name

Manseau Family Revocable Trust

c. Organization

54 Lake Attitash Road

d. Mailing Address

Amesbury

e. City/Town

MA

f. State

01913

g. Zip Code

978-807-9651

h. Phone Number

i. Fax Number

robertmanseau@comcast.net

j. Email Address

3. Property Owner (if different):

Same

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

X284346

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
1a work at a single family home	1	1	110.00
Step 5/Total Project Fee:			110.00

Step 6/Fee Payments:

Total Project Fee:	110.00
	a. Total Fee from Step 5
State share of filing Fee:	42.50
	b. 1/2 Total Fee less \$12.50
City/Town share of filling Fee:	67.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
Box 4062
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



Atlantic Engineering & Survey Consultants, Inc.
97 Tenney Street Georgetown, MA 01833
978-352-7870 • 978-352-9940 (fax) atlantic84@gmail.com

John B. Paulson, P.L.S. President
George J. Zambouras, P.E.

April 9, 2021

City of Amesbury
Conservation Commission
62 Friend Street
Amesbury, MA 01913

Re: Notice of Intent for Robert Manseau
Site: 54 Lake Attitash Road
Assessor's Map 59, Parcel 22

PROJECT NARRATIVE

Introduction

The home at 54 Lake Attitash Road was originally built around 1900 according to the City of Amesbury Assessor's information. It was originally built as a seasonal cottage and later became a year around home. In the mid 1980's the home underwent significant renovations that include the installation of a full foundation, and expansion in the living area and the addition of a 2 car garage. In the mid 1990's the garage was converted into an in-law apartment. The property remained in this configuration until it was sold in August 2019. The new owners embarked on a major renovation of the dwelling in 2019. An Order of Conditions was issued for some work that was proposed in the yard and the exterior of the house. This was completed and a Certificate of Compliance was issued in February 2021 and recorded in the registry of deeds in book 39656 page 230.

Also as part of this property is a dock which was licensed in 1997 with a transferable license which is valid for 99 years.

The property is 10,450 square feet in area. The Lot was created by a plan recorded in 1946 and recorded in plan book 75 as Lot 8 on plan 52.

Proposed Work

This project proposes several improvements to the site. All of the improvements are to take place on the southerly and westerly sides of the lot.

There are 4 main features that are being proposed. The first is the construction of a segmented retaining wall along the top of the slope. The second is the construction of a pervious paver patio and walkways. The third is the replacement of a set of wooden steps leading down to the existing docks with granite

steps. The last is the cleanup and enhancement of the lower slope area along the entire lake frontage. Each of these features is described in the following narrative.

Feature #1

A new retaining wall is proposed approximately 15 feet behind the house and along the top of the existing slope. The wall will be constructed of segmented blocks and the maximum height will be 4 feet. A fence will be installed in the wall for safety. The top of the wall will be at elevation 102.5 for a majority of the length. The bottom of the wall will be at the approximate existing elevation of 99 feet. A typical section of the wall is shown on the plan. A brochure of the wall is included in the application. The wall will be located between 11 and 18 feet from the edge of the lake. The wall installation will result in the removal of 1 tree. It is impossible to keep this tree as it is on the slope and has had some filling already done around it. In addition the root system is likely to be in the way of the wall. There was a twin to this tree which had to be removed a number of years ago. I believe this tree is also near it's end of life.

Feature #2

A new pervious paver patio is proposed off the most southerly corner of the house. It is proposed at 21 feet by 22 feet. Pervious walkways are also proposed as shown. A section showing the construction and a picture of a typical layout are shown on the plan. A brochure of the pavers is included in the application. In order to install the paver patio level area is required. This will necessitate the cutting of 2 pine trees. This is the only location on the property that is suitable for this patio.

Feature #3

A set of wooden steps was built to access the dock in 2019. Wood steps are always in need of upkeep, repair and replacement. The current plan is to replace the wood steps with granite steps. The granite blocks will be 4 feet wide. The steps will start at the proposed wall and will go down to elevation 96 feet. Each step will be about 8" high. The steps will be built into the existing slope.

Feature #4

The shoreline area from the base of the proposed segmented wall to the stone wall at the edge of the water is in a degraded state. It has a large area of Japanese Knotweed along the northerly portion of the waterfront. The rest of the slope contains poison ivy and other overgrown undergrowth. Due to the nature of the property the slope is hard to access and maintain. We are proposing to work on this slope in 3 sections.

Section 1 – The northerly shoreline behind the garage contains a large area of knotweed. It is about 350 square feet. The plan is to completely remove the soil in this area in order to uncover and remove the main root(s) of the knotweed. As part of this it will be necessary to remove and stack the stone wall along the shoreline. This is because the roots of the knotweed are tangled through the wall. All of the contaminated material will be carefully removed from the site. New screened loam will be trucked in to replace the material removed. The grading on the slope will remain the same. The stone wall along the shore line will be reset when all the work is complete.

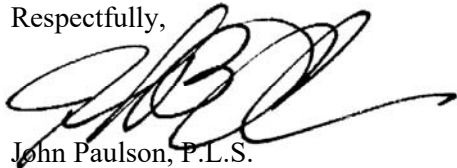
Section 2 – The next section of the shoreline is the area from the maple cluster to the stairs. This area needs to be cleaned up, weeded, the existing slope graded evenly and replanted with buffer zone friendly plants. The existing landscape timbers near the steps will also be removed. The rock wall along the water has been disturbed and pushed around by the lake ice. The wall will be re-positioned and re-enforced to the average existing height of 1 to 2 rocks high.

Section 3 – The final sections of the shoreline to be worked on is the area to the right of the steps over to the southerly property line. This area is very overgrown. There are the remains of one willow tree that needs to be removed. The rock wall along the water has been disturbed and pushed around by the lake ice. Portions of the wall have been covered by dirt. The wall will be re-positioned and re-enforced to the average existing height of 1 to 2 rocks high.

Other Considerations

1. Three trees which are in the upper yard are to be removed as part of this project. In addition 3 existing stumps need to be dealt. It is proposed that the trees be cut and then a total of 5 stumps will be ground to grade. The 6th stump which is in the proposed wall will be ground or removed as necessary to build the wall.
2. A variety of plants and ground cover will be used on the lower slope to enhance the area with buffer zone friendly plants. A list of plant, shrub and ground cover options are included in this application. There may be other plants used with the approval of the commission. The listed plants are taken from the Massachusetts Buffer Manual.
3. In the yard area around the patio 6 shrubs will be planted which are buffer zone friendly and are also taken from the Massachusetts Buffer Manual.
4. A siltation barrier is shown on the plan. Because of the type of work that is being proposed there is no ideal location for the barrier. It is proposed to be along the lower rock wall on the plan. During the segmented wall construction it is likely that the barrier will be located up slope such that it is on 2 to 3 feet off of the wall.
5. The anticipation is that all of the work done by a small excavator will be done from the top of the slope. There is no plan that any equipment will work from the water side of the project. Any work on the lower slope area will be done by hand.

Respectfully,

A handwritten signature in black ink, appearing to read 'JP', is written over the word 'Respectfully,'.

John Paulson, P.L.S.

Wetlands & Land Management, Inc.

100 Conifer Hill Drive - #516
Danvers, MA 01923
978-777-0004 Telephone

August 26, 2019

Bob Manseau
20 Lake Attitash Road
Amesbury, MA 01913

RE: Wetland Resource Evaluation at 54 Lake Attitash Road, Amesbury, MA

Dear Mr. Manseau:

Wetlands & Land Management, Inc. has completed our evaluation of wetland resource areas at your new property at 54 Lake Attitash Road in Amesbury. We performed this evaluation on August 26, 2019.

The property is developed with a residential home with deck and porch on the water side, a bituminous drive on the street side and casual and recently overgrown landscaping around the site. The land directly abuts Lake Attitash.

The house, deck and porch are located several feet higher than the adjacent lake. I noted a narrow, level area between the deck or porch and a sloped embankment down to the water edge. I noted there were remnants of landscape tie constructed planting beds on the slope in some locations, wood steps to the water and the water edge was armored with riprap across the entire site. The two abutting properties had concrete retaining walls along there respective waterfronts.

There were no vegetated wetlands along the lake embankment owing to the steep to moderate slope along the waterfront. Wetland resource areas along the pond edge included bank resource area and land under water.

I marked the upper limit of bank resource are with blue surveyors flagging labeled Bank 1 to Bank 7. Bank 1 is located on the left or southerly property line adjacent to the neighbors concrete shoreline wall. The flag line trends along a generally distinct, near vertical drop off of roughly 12 inches along the water line. Bank 7 is the last flag and ends at the northerly property line at those neighbors concrete steps and wall.

The lower limit of bank would be the bottom of the bank drop off or the natural mean low water line of the lake. The area outward from the bank would be land under water resource area.

The bank resource area is the most landward resource area. A 100-foot buffer zone extends from the bank flags. It appears that the entire property is in that jurisdictional buffer zone.

You informed me that the site landscaping had been neglected for the past year or so. I noted an infestation Japanese knotweed growing along the lake embankment. If left unchecked, this weed will continue to grow and spread, possibly exporting seeds to float away and establish on other properties. Control of this noxious weed is advisable.

The two main methods for eradication are to dig and remove the entire plant and root mass, or apply an herbicide to the plant. Either method requires repeated spot treatment by additional herbicide treatment or digging out re-emerging stems as they appear.

Rare Species and Certified Vernal Pools

The MassGIS data layer for the Natural Heritage Program indicates your property is not mapped as estimated habitat of rare wetlands wildlife, or Priority Habitat of threatened or endangered species.

I trust this information will be useful to you. Be advised, the Conservation Commission is the authority that will make a final determination of the limits of resource areas.

Sincerely,

Wetlands & Land Management, Inc.

William Manuell

William J. Manuell
Wetland Scientist



GravityStone® Fat Face & Fat Face-2/3 Scored



 Pavers by
Ideal®
IDEAL CONCRETE BLOCK CO.

GravityStone® Fat Face & Fat Face - 2/3 Scored

INTRODUCTION

Part of the GravityStone family of wall systems, Fat Face and Fat Face - 2/3 Scored provide a strong, durable, and attractive retaining wall solution for a variety of site conditions. Fat Face is our original split face unit. Fat Face - 2/3 Scored is a three-piece set. Two units have a chamfered score located 2/3 along the length of the split face; the third unit an unscored split face. All three have well-defined chamfers molded into each end providing a distinctive sculptured appearance.

Both styles are one square foot blocks ideally suited for commercial, municipal and residential walls. The open-core design optimizes interlock from one course to the next with a "rock-to-rock" connection. For additional design flexibility, both Fat Face and Fat Face - 2/3 Scored can be integrated together and used in combination with the GravityStone Modular System.

COMPOSITION & PERFORMANCE

Fat Face and Fat Face - 2/3 Scored are produced under controlled factory conditions. Molded from a cement-rich mixture blended with select aggregates and pure iron oxide pigments, the units are formed under extreme pressure and vibration. Both styles can create straight, concave or convex retaining walls in either a vertical or battered configuration using a unique reversible alignment plug. When used with geogrid, walls as tall as 20' and higher can be constructed.

PHYSICAL CHARACTERISTICS

Ideal's wall products meet or exceed North American industry standards, including ASTM C1372 Standard Specification for Drycast Segmental Retaining Wall Units. Strict quality control ensures consistent strength and durability.

Fat Face:	Single standard unit
Fat Face - 2/3 Scored:	2 scored units, 1 standard unit
Dimensions:	11.25"d x 8"h x 18"l
Weight:	80 lbs
Face Area:	1 sf/unit
Corner Unit:	6"d x 8"h x 15"l
Compressive Strength:	4500 psi minimum
Water Absorption:	7% maximum
Dimensional Tolerance:	+/- 1/8"
Wall Batter:	Vertical to 4.5° (3/4" per foot)

TECHNICAL INFORMATION & SERVICES

Contact our sales offices or visit www.PaversbyIdeal.com for design and technical information, including **WBS** Design software, **Ideal's** Contractor's Guide to Installing SRWs, and **NCMA's** SRWs Best Practice Guide. We provide design consultation, including free Preliminary Engineering Design Service, specification assistance and job-site quality review.

DESIGN CONSIDERATIONS

Ideal provides general information on design and construction. In all cases, the user should exercise diligence in determining its suitability for the site. Walls 4' and higher, terraced walls, and sites with weak soils, slopes and surcharges require special consideration and construction techniques, including the use of geogrid. These conditions require the services of a qualified soils engineer and a professional contractor familiar with wall construction. Always comply with local building codes.

GENERAL CONSTRUCTION GUIDELINES

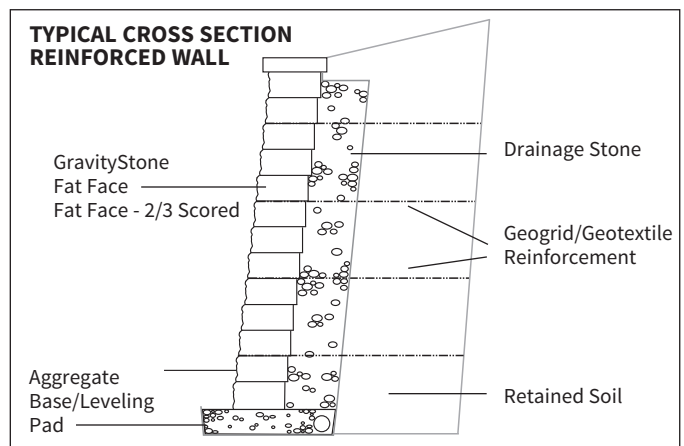
BASE: Establish a level, well-compacted, dense-graded aggregate base a minimum 8" below finished grade. Install perforated pipe as shown on the plans.

PLACEMENT OF FIRST COURSE OF BLOCKS: Block in the first course must be placed and carefully leveled front-to-back and side-to-side. For vertical walls, insert alignment plug in the forward position. For walls intended to batter, place the plug in the rear position. Fill the cores with graded stone. Place and compact dense-graded aggregate to fill the trench.

CONSTRUCTING THE WALL: Install additional courses in a running bond pattern, aligning the face of the units in a vertical position or with a 1/2" step-back as shown on the plans. Cut as needed to maintain a stagger. Insert plugs and fill cores with graded stone. Backfill and compact between and behind the units with graded stone. Repeat for each course.

REINFORCED RETAINING WALLS: When used, place geogrid as shown on the plans. Install with the design strength perpendicular to the wall. Avoid overlapping adjacent sheets. Use care not to damage grid when backfilling and compacting.

CAPPING WALL: Affix Ideal's Universal Coping™ or natural stone coping using construction-grade adhesive. Add a 4" layer of low permeability soil behind it, cover with topsoil and add plantings.



Always wear proper safety equipment when cutting or sawing concrete products.

A white deposit known as efflorescence may appear naturally on any concrete or masonry product. It does not affect the structural integrity and will dissipate over time. Efflorescence is not indicative of a flawed product. For more information, ask for our Efflorescence Advisory.

GravityStone® Fat Face is a trademark of WestBlock Systems, USA ©2018-2019 Ideal Concrete Block Co.



A Registered Trademark of Ideal Concrete Block Co.

Traditional & Permeable Pavers ■ Landscape Retaining Walls ■ Natural Stone
Manufactured by Ideal Concrete Block Co.
45-55 Power Rd., Westford, MA 01886 ■ 232 Lexington St., Waltham, MA 02452
(781) 894-3200 ■ info@IdealConcreteBlock.com ■ www.PaversbyIdeal.com



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The Best Outdoor Living Ideas!

2021



HIGHLIGHTS FOR 2021...



**NEW
BELGIUM
CURBSTONE**



**NEW
OMEGA 7
NATURAL STONE
WALL**



**NEW
ALLIANCE GATOR
NITRO SAND &
XTREME EDGE**



**NEW
PRE-PACKAGED
LOUVERED
K-BANA**





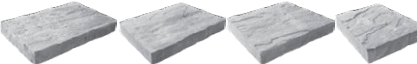
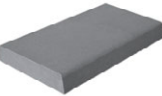
“An added value when selling your home.”

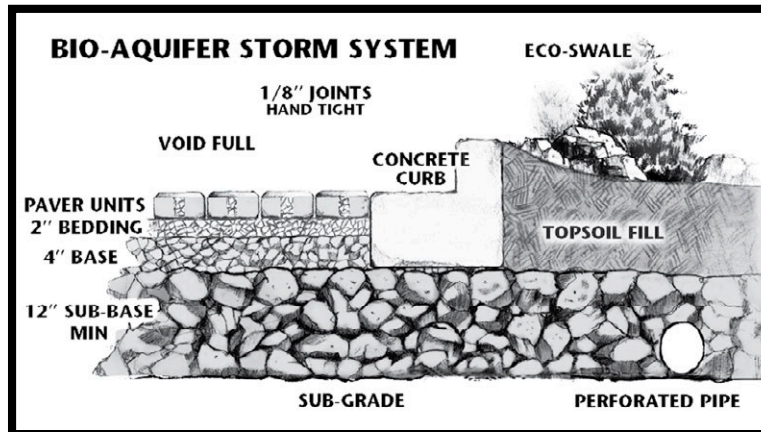
Charles H. Gamarekian, Founder / Chairman / CEO

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cambridgepavers.com

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	CONCRETE BRICK	HOLLAND Without Spacer Bars & Chamfered Edges	4X12 BULLNOSE (Special Order Only)	6X12 BULLNOSE	LEDGESTONE CAP WITH ARMORTEC®		12X24 CAP
PAVINGSTONE SHAPE	 Without Spacer Bars & Chamfered Edges						
ACTUAL SIZE (inches) 2 3/8 Thick - unless noted	4 x 8	4 x 8	3 7/8 x 12	6 x 12	19 1/8 x 19 1/8 - 7 pcs. • 18 3/4 x 16 1/2 - 7 pcs. 16 x 13 3/4 - 14 pcs. • 11 7/11 x 9 3/8 - 14 pcs.		12 9/16 X 24
WEIGHT PER CUBE (lbs.)	3,267	3,267	2,146 (Pallet Incl.)	2,146 (Pallet Incl.)	2 3/8" Thick • All caps 12 9/16" Depth All four pieces are conveniently packaged on one pallet. One cube contains 7 corner units that can be used as a right or left corner, and as regular units. Straight, curved, circular and serpentine designs can be easily created with these four larger configurations - three trapezoidal and one square. With deep, bluestone-like clefts, this multi-use option can be used for pool coping, steps, wall caps and pavingstone borders. Linear Ft. Per Cube: 51 • Pieces Per Cube: 42 Total Weight: 1,450 lbs. (Pallet Incl.)		1,845 (Pallet Incl.)
SQUARE FT. PER CUBE	121	121	78	78			60 Linear Ft.
PIECES PER CUBE	540	540	234	156			30
SQUARE FT. PER BAND	20.10	20.10	26	26			20 Linear Ft.
PIECES PER BAND	90	90	78	52			10
BANDS PER CUBE	6	6	3	3			3
PRICE PER SQUARE FOOT	Natural	Standard	SPECIAL ORDER ONLY Please call for pricing and production scheduling.	Standard	PRICE PER LINEAR FOOT	Standard	Standard
	SPECIAL ORDER ONLY NO ARMORTEC®.			Color Plus		Color Plus	
				Premier		Premier	



PERMEABLE PAVEMENT SYSTEMS

Both Ledgestone Permeable 3-Pc. Design Kits & Holland Permeable XL with ArmorTec® are specially designed for rapid removal of stormwater. Minimal openings make walking more comfortable while allowing for natural stormwater drainage and groundwater recharge. Retention ponds are eliminated. Maximum strength for driveways, parking lots and roads with key ecological benefits, curb appeal and convenient access for maintenance. Holland Permeable XL is also available in The Renaissance Collection. **The Belgium 5-Pc. Design Kit with ArmorTec® is also designed for permeable applications.**

Pavingstones are laid out in a variety of patterns with gravel between them. Below the pavers typically sits a 12 in. to 24 in. sub-base of stones (depth requirements vary), a 4 in. deep base of 1/4 in. to 1/2 in. clean gravel, and a 2 in. bedding sand of 1/8 in. to 1/2 in. grits (see diagram).

	LEDGESTONE PERMEABLE 3-PC. DESIGN KIT	LEDGESTONE SMALL PERMEABLE 3-PC. DESIGN KIT	LEDGESTONE PERMEABLE 6X9	LEDGESTONE SMOOTH PERMEABLE 6X9	HOLLAND PERMEABLE XL	TURFSTONE
PAVINGSTONE SHAPE						
ACTUAL SIZE (inches) 3 1/8 Thick - unless noted	9 3/32 x 13 5/8 - 56 pcs. 9 3/32 x 9 3/32 - 40 pcs. 4 17/32 x 9 3/32 - 72 pcs.	4 17/32 x 4 17/32 - 112 pcs. 4 17/32 x 9 3/32 - 152 pcs. 9 3/32 x 9 3/32 - 56 pcs.	6 x 9	6 x 9	4 15/16 x 9 7/8	15 3/4 x 23 5/8
WEIGHT PER CUBE (lbs.)	3,220	3,220	3,150	3,150	2,660	2,241
SQUARE FT. PER CUBE	92	92	90	90	76	83
PIECES PER CUBE	168	320	240	240	224	32
SQUARE FT. PER BAND			18	18	18.90	
PIECES PER BAND	N/A	N/A	48	48	56	N/A
BANDS PER CUBE			5	5	4	
OPEN VOID AREA	5.44%	7.5%	8%	8%	7.85%	38.45%
PRICE PER SQUARE FOOT	Standard	Onyx/Natural	Standard	Onyx/Natural	CRUSADER Onyx/Natural	Natural
	Color Plus		Color Plus		RENAISSANCE (Special Order Only)	CALL

Property Location: 54 LAKE ATTITASH RD

Vision ID: 6358 Account # 96 LA

MAP ID: 591 / 22 / 1

Bldg Name:

State Use: 1013

Print Date: 03/17/2021 12:26

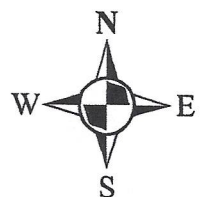
CURRENT OWNER MANSEAU FAMILY REVOCABLE TRUST ROBERT C & DEBRA J MANSEAU 54 LAKE ATTITASH RD AMESBURY, MA 01913 Additional Owners:		TOPO. Level	UTILITIES I All Public	STRT./ROAD I Paved	LOCATION I Urban	Sec #: 1 of 1	Bldg #: 1 of 1	Card 1 of 1	CURRENT ASSESSMENT Description RESIDENTIAL RES LAND RESIDENTIAL		Code 1013 1013 1013	Appraised Value 425,300 235,100 1,000	Assessed Value 425,300 235,100 1,000	101 AMESBURY, MA	
SUPPLEMENTAL DATA Other ID: 00069 00000 00015 Sub-Div: Original Lot Spec. Cond. F97 F99 OWNER OCCU NOTES ABC STYLE AB APPLIC # CHAPTER L GIS ID: M 243020 955738 ASSOC PID#															
RECORD OF OWNERSHIP MANSEAU FAMILY REVOCABLE TRUST PAULSON JOHN & SANDRA PAULSON T/E PAULSON, JOHN WATKINS ROBERT F		BK-VOL/PAGE 37756/ 105 11517/ 579 10880/ 382 07432/0243	SALE DATE 08/15/2019 10/05/1992 07/24/1991 06/12/1984	q/u U U U U	w/i I I I I	SALE PRICE 455,000 1 IF 65,000 1L 1 IA	V.C. 1U 1 IF 1L 1A	PREVIOUS ASSESSMENTS (HISTORY) Yr. Code Assessed Value Yr. Code Assessed Value 2021 1013 425,300 2020 1013 394,800 2021 1013 235,100 2020 1013 235,100 2021 1013 1,000 2020 1013 1,000							
EXEMPTIONS Year Type Description		OTHER ASSESSMENTS Amount Description Number Amount Comm. Int.		APPRAISED VALUE SUMMARY Appraised Bldg. Value (Card) 422,900 Appraised XF (B) Value (Bldg) 2,400 Appraised OB (L) Value (Bldg) 1,000 Appraised Land Value (Bldg) 235,100 Special Land Value 0 Total Appraised Parcel Value 661,400 Valuation Method: C Adjustment: 0 Net Total Appraised Parcel Value 661,400											
ASSESSING NEIGHBORHOOD NBHD/SUB 0001/A		NOTES CK FY21 = REMODEL/ FULL GUT. SHOULD BE RA WHEN DONE		BUILDING PERMIT RECORD Permit ID Issue Date Type Description Amount Insp. Date % Comp. Date Comp. Comments 200139 08/27/2019 RE Remodel 58,000 06/04/2020 100 06/04/2020 INTERIOR REMODEL 200124 08/20/2019 DE Demolish 5,000 06/04/2020 100 06/04/2020 INTERIOR DEMOLITION 04-482 04/28/2004 RE Remodel 0 09/29/2005 0 09/29/2005 RENOVATE 2ND FL/ N 94-264 07/28/1994 RS Residential 2,800 08/21/1995 100 12/30/1994 SHDI/WDDK 94-435 07/28/1994 RS Residential 1,000 08/21/1995 100 12/30/1994 ALTERATIONS 92-17 01/17/1992 RS Residential 17,000 09/21/1993 100 06/30/1993 FGR CONVR 86-328 07/24/1986 RS Residential 10,440 12/31/1987 100 11/30/1986 GAR&BREEZEWAY											
LAND LINE VALUATION SECTION B Use Code Description Zone D Front Depth Units Units Price Unit Price I. Factor S.A. Acre Disc Factor Idx ST. Notes-Adj. S Adj Fact Adj. Unit Price Land Value 1 1013 Single Family Waterfron R20 85 80 10,450 SF 11.25 2.0000 U 1.0000 1.00 0.00 1.00 22.50 235,100															
Total Card Land Units: 10,450 SF Parcel Total Land Area: 10,450 SF Total Land Value: 235,100															

54 LAKE ATTITASH RD - 300'



GEOGRAPHIC INFORMATION SYSTEM

VISION APPRAISAL TECHNOLOGY

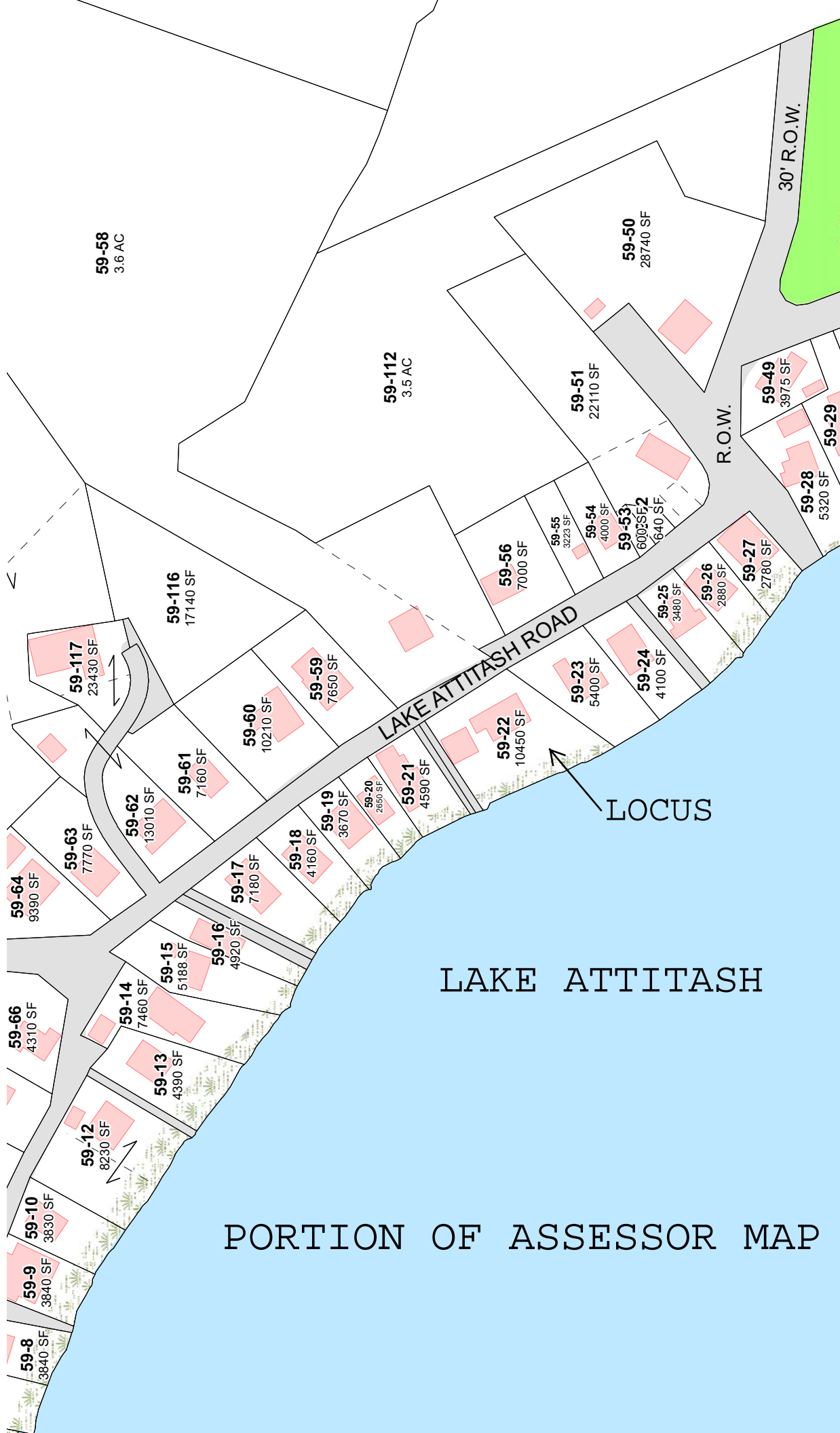


ABUTTERS LISTING for 54 LAKE ATTITASH RD - 300' AMESBURY, MA

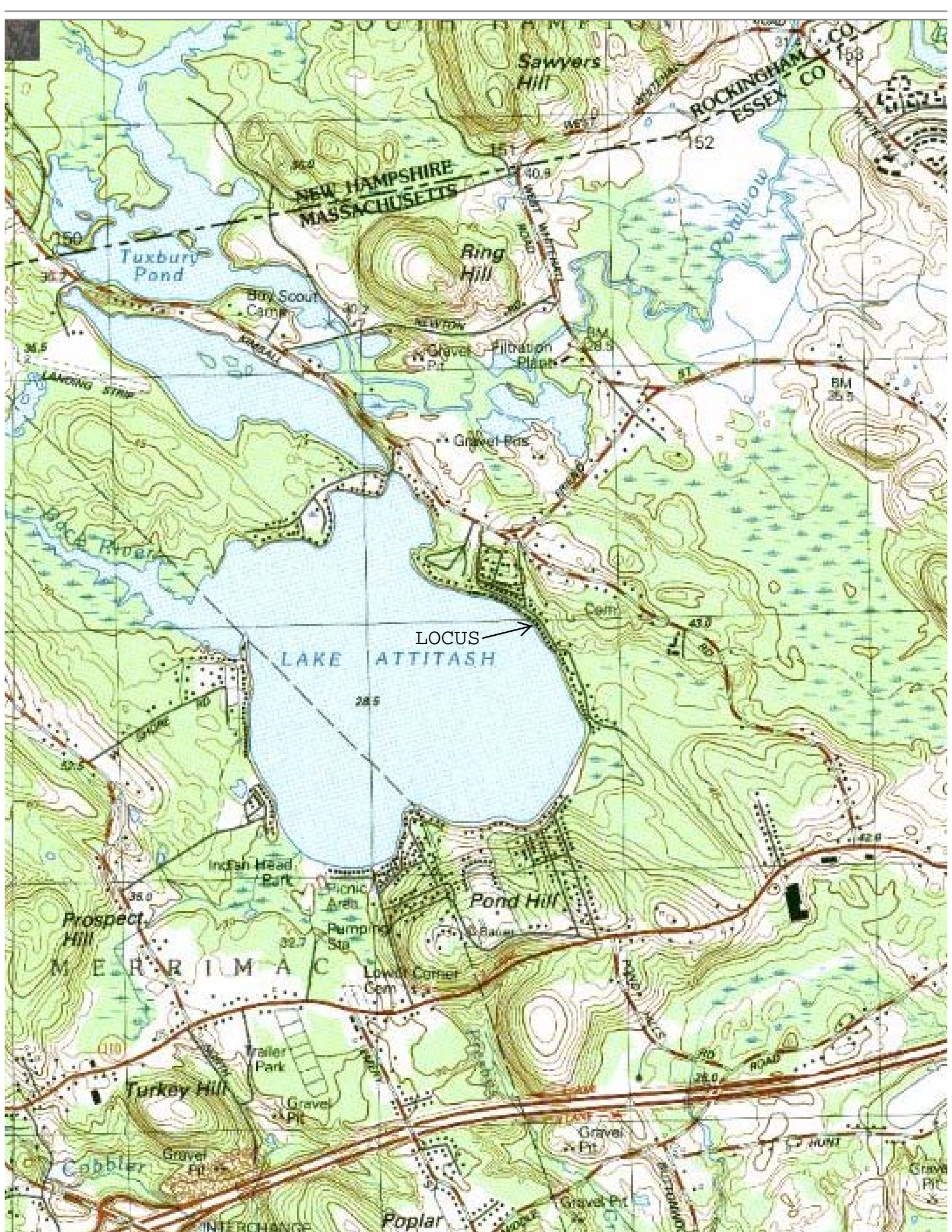
AV	FID	Map	Lot	Unit	Location	Owner's Name	Co_Owner's Name	Address	City	ST	Zip	B
6351		59	112		35 LAKE ATTITASH RD	MERCER STEVEN A	C/O ELAINE SENECHAL	48 LAKE ATTITASH RD	AMESBURY	MA	01913	1
6346		59	29		40 LAKE ATTITASH RD	VEDRANI H MICHAEL JR		40 LAKE ATTITASH RD	AMESBURY	MA	01913	0
6347		59	28		41 LAKE ATTITASH RD	BRODSKY MICHELLE	TRUSTEE OF MICHELLE BRODSKY RE	42 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6353		59	27		44 LAKE ATTITASH RD	44 LAKE ATTITASH RD REALTY TRU	PETER P & GILLIAN A DORAN TRUS	44 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6382		59	51		45 LAKE ATTITASH RD	MATOS RACHAEL	C/O EDWARD SILVA (J/T)	45 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6381		59	53		45 LAKE ATTITASH RD #B	PHILLIPS THOMAS DAVID		46 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6384		59	52		45 LAKE ATTITASH RD #A	DORAN P P & GILLIAN A	TRUSTEES OF 44 LAKE ATTITASH R	44 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6354		59	26		46 LAKE ATTITASH RD	PHILLIPS THOMAS DAVID		46 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6380		59	54		47 LAKE ATTITASH RD	SENECHAL-BROWN ELAINE	CHERYL FERRARA TRUSTEES	48 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6355		59	25		48 LAKE ATTITASH RD	SENECHAL CHILDREN TRUST	ELAINE SENECHAL-BROWN & CHERYL	48 LAKE ATTITASH RD	AMESBURY	MA	01913	1
6379		59	55		49 LAKE ATTITASH RD	JUNE C. PASTMAN REVOCABLE TRUS	JUNE C. PASTMAN (TRUSTEE)	50 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6356		59	24		50 LAKE ATTITASH RD	JUNE C. PASTMAN REVOCABLE TRUS	JUNE C. PASTMAN (TRUSTEE)	50 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6378		59	56		51 LAKE ATTITASH RD	SVETAKA PATRICE A		51 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6357		59	23		52 LAKE ATTITASH RD	MERCER STEVEN A		52 LAKE ATTITASH RD	AMESBURY	MA	01913	1
6358		59	22		54 LAKE ATTITASH RD	MANSEAU FAMILY REVOCABLE TRUS	ROBERT C & DEBRA J MANSEAU	54 LAKE ATTITASH RD	AMESBURY	MA	01913	1
6359		59	21		56 LAKE ATTITASH RD	JUTRAS MARY ELLEN TR	56 LAKE ATTITASH ROAD REALTY T	56 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6489		59	58		57 LAKE ATTITASH RD	JUTRAS J NORMAND		11 BITTERSWEET LANE	HAMILTON	MA	01982	1
6360		59	20		58 LAKE ATTITASH RD	WYATT JULIE DEE		58 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6376		59	59		59 LAKE ATTITASH RD	JUTRAS MARY ELLEN		59 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6361		59	19		60 LAKE ATTITASH RD	MCWILLEON JOSEPH	LUCY A MCWILLEON T/E	60 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6375		59	60		61 LAKE ATTITASH RD	AMES STEPHANIE M		61 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6362		59	18		62 LAKE ATTITASH RD	KLYPKA-SIMPSON MARILYN		62 LAKE ATTITASH	AMESBURY	MA	01913	2
6372		59	61		63 LAKE ATTITASH RD	MCWILLEON JOHN	MELINDA MCWILLEON T/E	5 FLORENCE AVE	SALISBURY	MA	01952	3
6363		59	17		64 LAKE ATTITASH RD	HAMMOND FAMILY REVOCABLE TRUST	C/O JAY W HAMMOND	243 WESTBANK RD	GLENWOOD SPR	CO	81601	3
6371		59	62		65 LAKE ATTITASH RD	LEFEBVRE HARRY J	LAURA A LEFEBVRE T/E	65 LAKE ATTITASH RD	AMESBURY	MA	01913	1
6373		59	117		65 LAKE ATTITASH RD #A	TURCOTTE MAURINE A		65A LAKE ATTITASH RD	AMESBURY	MA	01913	2
6365		59	15		66 LAKE ATTITASH RD #A	PETERS CARLETON		90 FARRELL ROAD	LYNN	MA	01905	3
6364		59	16		66 LAKE ATTITASH RD #B	KUZMITSKI CHRISTINE	PAUL A AKSCYN J/T	66B LAKE ATTITASH RD	AMESBURY	MA	01913	2
6369		59	63		67 LAKE ATTITASH RD	CARMODY MARK JOHN	TOMI MARIE CARMODY	67 LAKE ATTITASH RD	AMESBURY	MA	01913	2
6264		59	14		68 LAKE ATTITASH RD	HALLISSEY ELLEN M		68 LAKE ATTITASH RD	AMESBURY	MA	01913	3
6374		59	116		61R LAKE ATTITASH RD	TUXBURY WILLIAM M		LAKE ATTITASH RD	AMESBURY	MA	01913	2
6348		59	49		40.5 LAKE ATTITASH RD	SNIEGOSKI LINDA		40.5 LAKE ATTITASH RD	AMESBURY	MA	01913	1

THE BOARD OF ASSESSORS OF THE TOWN OF
AMESBURY, MASSACHUSETTS HEREBY CERTIFIES THAT THE
LIST OF ABUTTERS IS THE MOST RECENT
APPLICABLE TAX LIST AS REQUIRED BY CHAPTER
20A, SECTION 11 OF THE MASSACHUSETTS
GLENWOOD SPRING, MASSACHUSETTS

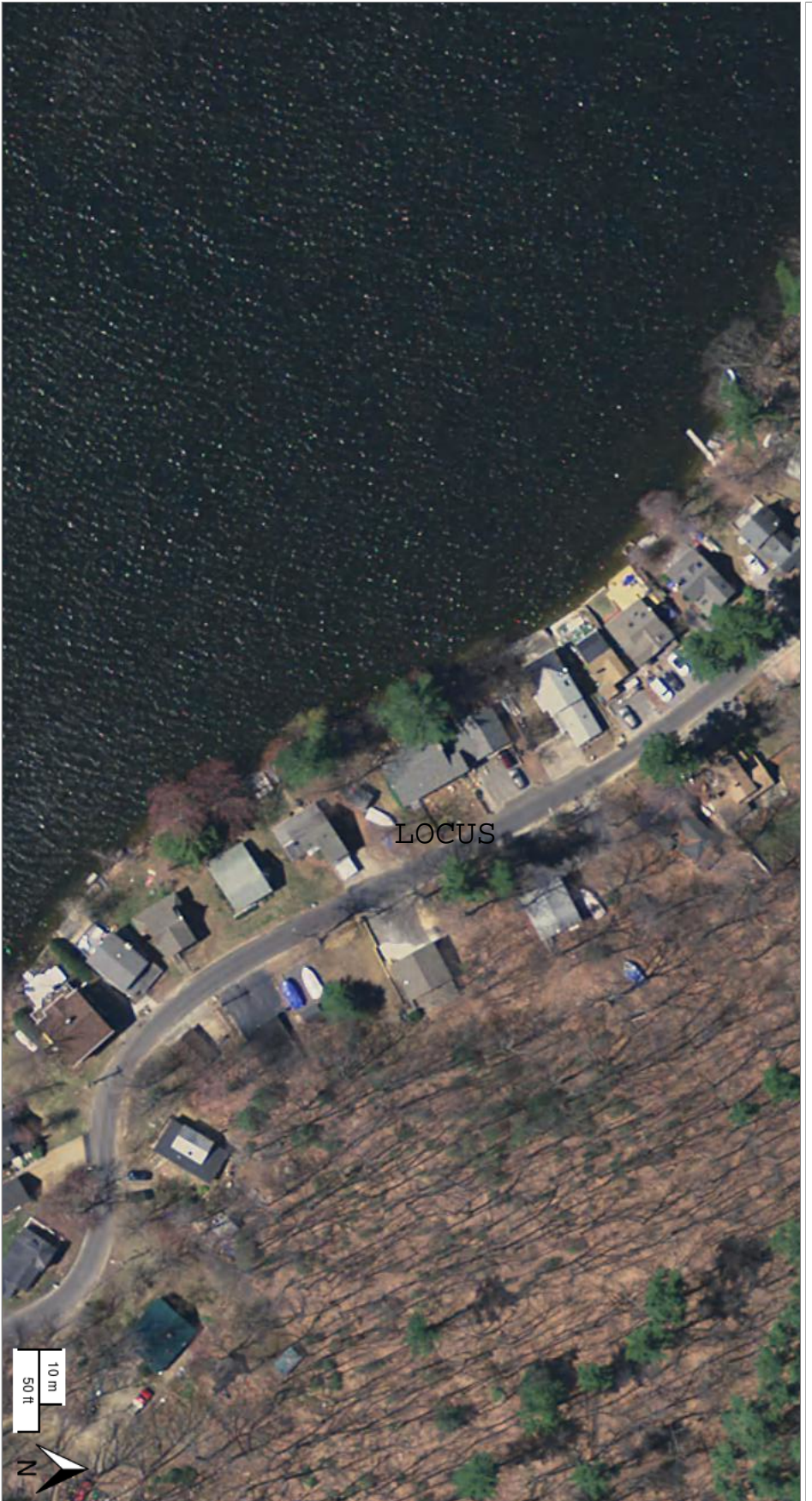
Diana Caswell 3/17/24



PORTION OF ASSESSOR MAP 59



LOCUS →



National Heritage
Map from Oliver
shows no special
areas along the
shore.

Major MassDOT Routes
Interstate Highway
US Roads
State
Massachusetts Towns
NHESP Estimated Habitat
Wildlife
NHESP Priority Habitats
Species
Orthos 2013-2014
2013-2014 Color Orthos

City of Amesbury

09/11/2019



Data Sources: Produced by Merrimack Valley Planning Commission (MVPC) using data provided by the City of Amesbury & MassIT/MassGIS.
MVPC AND THE CITY OF AMESBURY MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE CITY OF AMESBURY AND MVPC DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.




Municipal Boundary	Parcels	Roads	Interstate
Local Road	Easements	Streams	Major Road





National Flood Hazard Layer FIRMette















Legend




SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT


SPECIAL FLOOD HAZARD AREAS	 Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
-----------------------------------	---

OTHER AREAS OF FLOOD HAZARD	 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X  Future Conditions 1% Annual Chance Flood Hazard Zone X  Area with Reduced Flood Risk due to Levee. See Notes, Zone X  Area with Flood Risk due to Levee Zone D
------------------------------------	---

OTHER AREAS	 Area of Minimal Flood Hazard Zone X  Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	 Channel, Culvert, or Storm Sewer  Levee, Dike, or Floodwall

OTHER FEATURES	 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  17.5 Coastal Transect  Base Flood Elevation Line (BFE)  Limit of Study  Jurisdiction Boundary  Coastal Transect Baseline  Profile Baseline  Hydrographic Feature
-----------------------	---

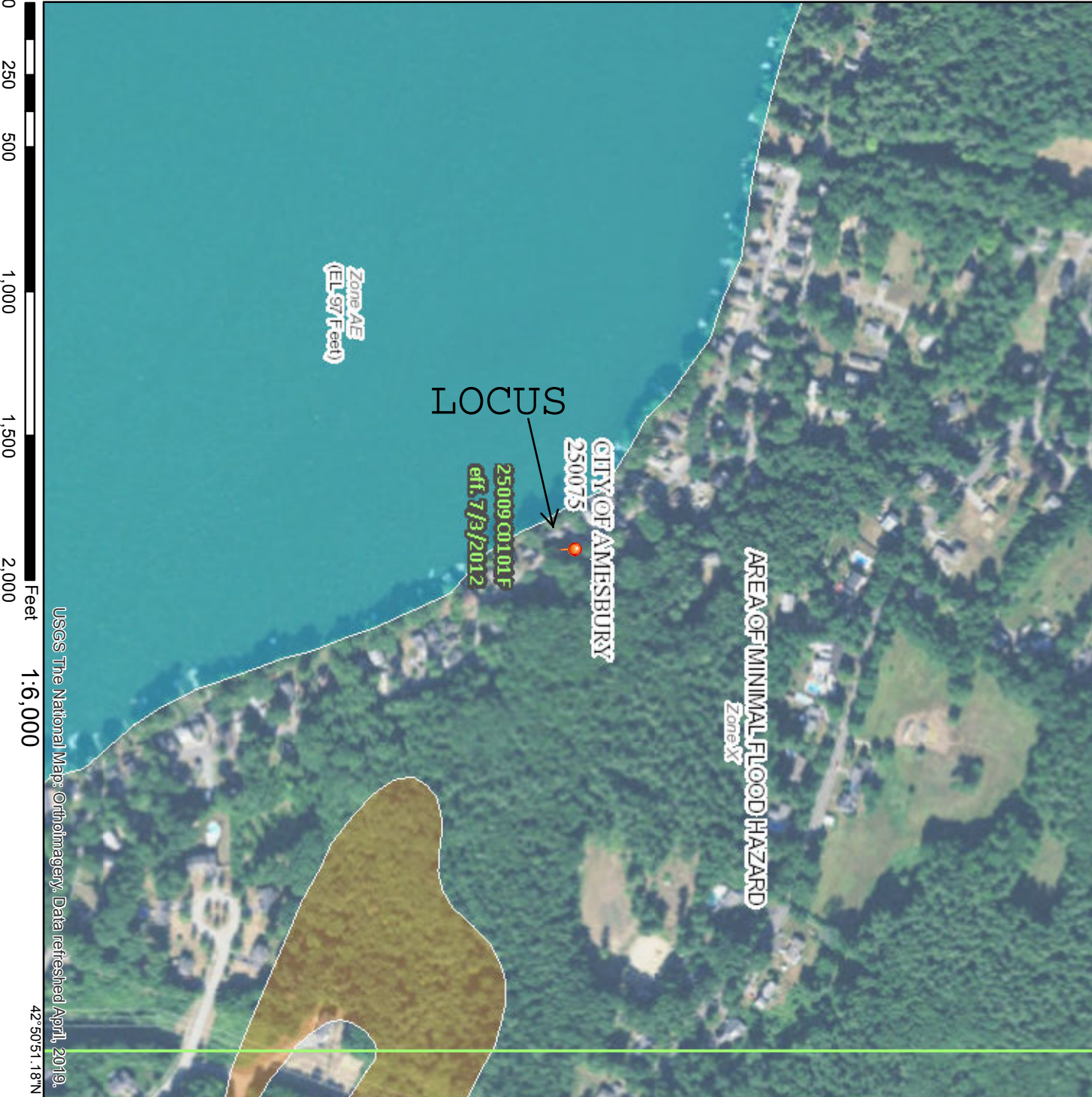
MAP PANELS	 Digital Data Available  No Digital Data Available  Unmapped
-------------------	--


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **9/11/2019 at 8:48:43 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and undriverized areas cannot be used for regulatory purposes.



USGS The National Map: Orthoimagery, Data refreshed April, 2019.

0 250 500 1,000 1,500 2,000 Feet

42°50'51.18"N

70°58'43.35"W

NOTIFICATION TO ABUTTERS
UNDER THE
MASSACHUSETTS WETLANDS PROTECTION ACT
AND AMESBURY WETLANDS PROTECTION BYLAW

In accordance with the Massachusetts General Laws, Chapter 131, Section 40, and the Amesbury Wetlands Protection Bylaw, you area hereby notified of the following:

The Amesbury Conservation Commission will hold a public hearing on

May 3, 2021, at 6:30pm, located at 62 Friend St with virtual available,
(date) (time) (hearing location)

Amesbury, to consider a Notice of Intent submitted by Robert Manseau
(application) (applicant)

, to proposed wall, patio, tree removal and shore enhancements
(applicant) (brief description of the proposed project)

#54 Lake Attitash Road at

Assessor Map 59 parcel 22.
(project location)

Hearings begin at 6:30. For more information concerning the date, time or place of hearing, contact the Conservation Commission at 978-388-8110.

Arrangements to examine copies of the filling may be made by calling the Conservation Commission at 978-388-8110. Copies may be available for a fee.

Further information regarding the hearing, or the Wetlands Protection Act, may be obtained from the Conservation Commission at 978-388-8110.

NOTE: Notice of the public hearing, including its date, time, and place will be posted in Town Hall not less than 48 hours in advance.

NOTE: Notice of the public hearing, including its date, time, and place will be published in the Newburyport Daily News not less than 5 business days prior to the public hearing.

NOTE: You may also contact the Amesbury Conservation Commission or the Department of Environmental Protection (DEP) Wetlands Division- Northeast Regional Office (NERO) for more information about this application or the Wetlands Protection Act. The DEP, Northeast Regional Office can be reached at 617-654-6500.

AFFIDAVIT OF SERVICE

I, JOHN B. PAULSON, hereby certify under the pains and penalties of perjury that, on April 15, 2021, I gave Notification to Abutters in compliance with the second paragraph of the Massachusetts General Laws, Chapter 131, Section 40 and the DEP Guide to Abutter Notification in connection with the following matter:

A Notice of Intent application was filed under the Massachusetts Wetlands Protection Act and the AMESBURY Wetlands Protection Bylaw, with the AMESBURY Conservation Commission by HAND DELIVERY on April 15, 2021, for the property located at 54 Lake Attitash Road, Amesbury, Massachusetts, (Assessor's map 59, parcel(s) 22).

The form of notification and the list of abutters to whom it was given and their addresses are attached to this Affidavit of Service.



Signature

April 15, 2021

Date



SO.ESSEX #290 Bk:37756 Pg:105
08/15/2019 12:24 PM DEED Pg 1/2
eRecorded

MASSACHUSETTS EXCISE TAX
Southern Essex District ROD
Date: 08/15/2019 12:24 PM
ID: 1309712 Doc# 20190815002900
Fee: \$2,074.80 Cons: \$455,000.00

DEED

We, John Paulson and Sandra Paulson, husband and wife, both of Merrimac, Essex County, Massachusetts,

For consideration paid of Four Hundred Fifty-Five Thousand (\$455,000.00) Dollars,

Grant to Robert C. Manseau and Debra J. Manseau, Trustees of the Manseau Family Revocable Trust, under declaration of trust dated April 7, 2015, as evidenced by a Trustee's Certificate recorded in the Essex South Registry of Deeds at Book 35798 Page 577, now of 54 Lake Attitash Road, Amesbury, Essex County, Massachusetts

With Quitclaim Covenants

The land with the buildings thereon, in said Amesbury, at Lake Attitash, being Lot No. 8 on Plan of Land in Amesbury, MA, as subdivided by Ida Tuxbury, dated October, 1945, Clinton F. Goodwin, Engineer, said Plan being recorded with Essex South District Registry of Deeds as Plan 52, in Plan Book 75,, bounded and described as follows:

Beginning at an iron pin at Lake Attitash in the center line of a private way at Lot No. 7, thence running

NORTHEASTERLY by said center line 88.75 feet to the center line of another private way; thence running
SOUTHEASTERLY by the center line of said private way 88.26 feet to land now or formerly of Warner; thence running
SOUTHWESTERLY by said land now or formerly of Warner and land of Watkin 113.56 feet to an iron pin near Lake Attitash; thence running
NORTHWESTERLY by said Lake Attitash 134.37 feet to the iron pin at the point of beginning.

Said lot contains 10,450 square feet, more or less.

Subject to the rights of passage by owners of land on the aforementioned plan and others having such rights over such part of the granted premises as is contained within the private ways shown on said plan.


The premises is further conveyed subject to and with the benefit of yard and landscaping easements by and between the grantors and Steven C. Mercer, which easements are recorded at Book 37755, Page 23, and Book 37755, Page 26, respectively.

We, the grantors, being husband and wife, release to grantees all rights of homestead and other interests herein. We certify under the pains and penalties of perjury there are no other persons entitled to estates of homestead in the premises.

Meaning and intending to convey and hereby conveying the same premises conveyed to John Paulson and Sandra Paulson by deed of John Paulson dated September 30, 1992 recorded in the Essex South Registry of Deeds at Book 11517 Page 579.

Property Address: 54 Lake Attitash Road, Amesbury, MA

Executed under seal this 14th day of August, 2019.


John Paulson


Sandra Paulson

COMMONWEALTH OF MASSACHUSETTS

Essex, ss.

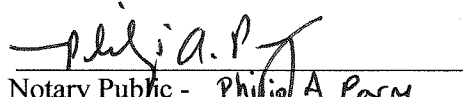
On this 14th day of August, 2019, before me, the undersigned notary public, personally appeared John Paulson and Sandra Paulson aforesaid, proved to me through satisfactory evidence of identification, which were driver's licenses and personal knowledge, to be the persons whose names are signed on the preceding or attached document, and acknowledged to me that they signed it voluntarily for its stated purpose, and who made oath that the representations contained therein as to homestead rights are true.



PHILIP A. PARRY
NOTARY PUBLIC

COMMONWEALTH OF MASSACHUSETTS

MY COMMISSION EXPIRES
MAY 24, 2024


Notary Public - Philip A Parry
My Commission Expires: 5.24.24

PLAN OF LAND
IN
AMESBURY, MASS.
AS SUBDIVIDED BY
IDA TUXBURY
Scale 1"=20' Oct. 1946

Clinton F. Goodwin - Eng.
Essex Registry of Deeds,
Haverhill, Mass.

PLAN BOOK 75 PLAN 52

ESSEX REGISTRY OF DEEDS, SO. DIST.

SALEM, MASS.

Received Oct. 2, 1946

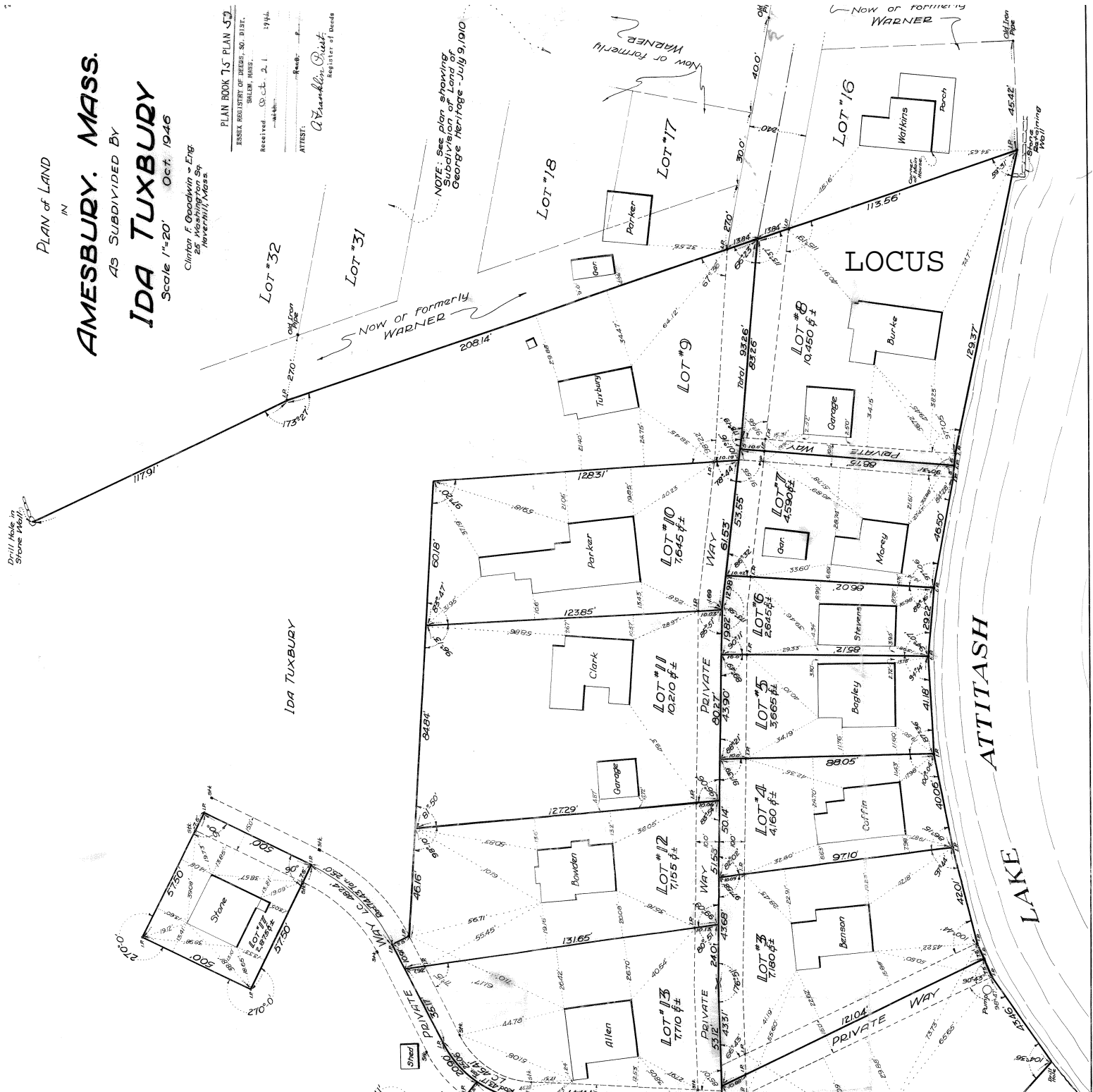
Attest:

Registrar of Deeds

Attest:

Registrar of Deeds

NOTE: See plan showing
Subdivision of Land of
George Heritage - July 9, 1910



PLAN BOOK 324 PLAN 82

MASS. REGISTRY OF DEEDS, 50.05T.
SALMON, MASS.

Received April 15 1998

with *John & Sandra Paulson*
Commonwealth of Massachusetts
Rec B 1437P.299

Attest:

John B. Paulson

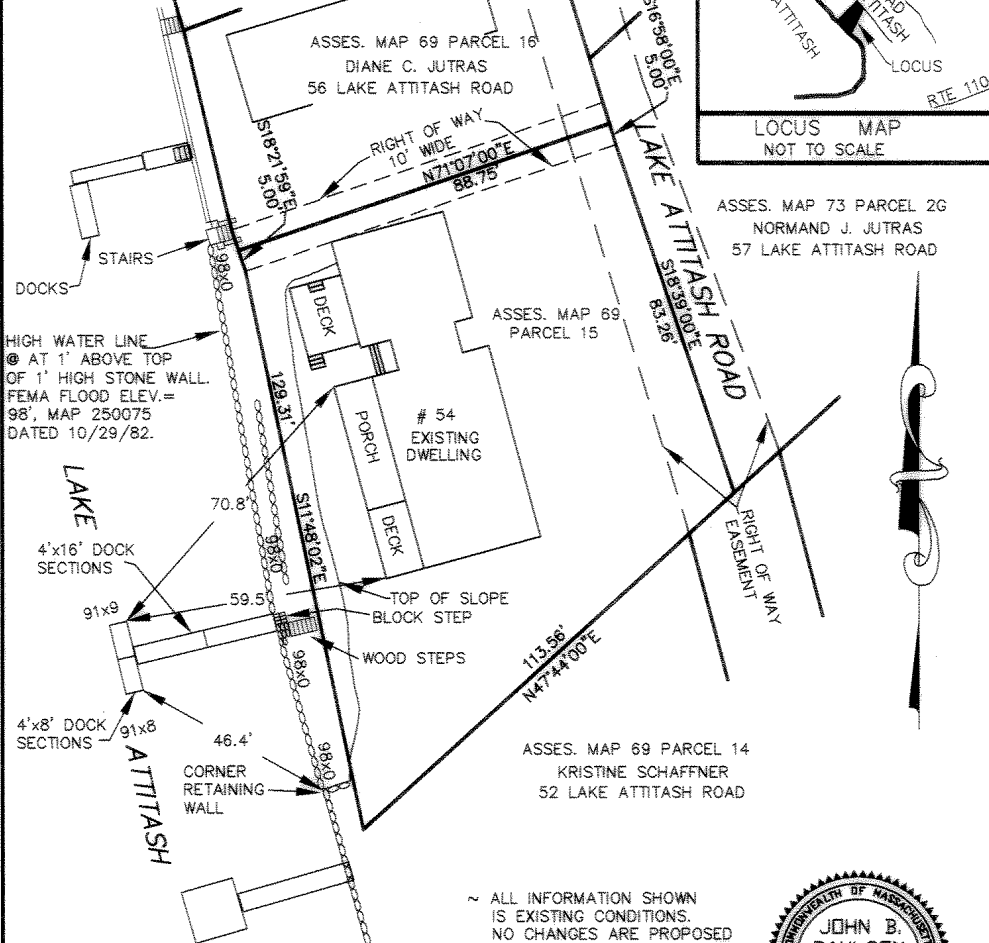
Register of Deeds

296

I CERTIFY THAT THIS PLAN IS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION & BELIEF I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, & THE LINES OF STREETS & WAYS SHOWN ARE THOSE OF PUBLIC & PRIVATE STREETS ALREADY ESTABLISHED, & THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN.

- ~ THERE ARE NO KNOWN PREVIOUS LICENSES FOR THIS SITE.
- ~ PLAN DATUM = N.G.V.D. OF 1929.
- ~ BENCHMARK = RIM S.M.H. BETWEEN #52 AND #54. ELEV=104.60'



PLAN ACCOMPANYING PETITION
OF: JOHN & SANDRA PAULSON

TO MAINTAIN EXISTING DOCKS, STAIRS AND WALLS AFTER THE FACT
AND FOR MAINTENANCE IN AND OVER THE WATERS OF LAKE ATTITASH.

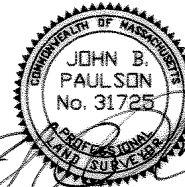
AMESBURY, MASSACHUSETTS

SCALE: 1"=30' DATE: SEPT. 15, 1995

ATLANTIC ENGINEERING AND SURVEY
CONSULTANTS, INC.
97 TENNEY STREET GEORGETOWN, MA



~ ALL INFORMATION SHOWN IS EXISTING CONDITIONS. NO CHANGES ARE PROPOSED AS PART OF THIS APPLICATION.



SHEET 1 of 2

LICENSE PLAN NO. 6802

Approved by Department of Environmental Protection
of Massachusetts SEP 12 1997

David M. Wolfe

1096-4624

46002

For Registry of Deeds Use Only



SO.ESSEX #184 Bk:39656 Pg:230

03/17/2021 10:48 COMPLI Pg 1/4



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

DEP File Number:

WPA Form 8B – Certificate of Compliance

002-1246

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP

A. Project Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. This Certificate of Compliance is issued to:

Manseau Family Revocable Trust

Name

54 Lake Attitash Road

Mailing Address

Amesbury

City/Town

MA

State

01913

Zip Code

2. This Certificate of Compliance is issued for work regulated by a final Order of Conditions or Order of Resource Area Delineation issued to:

Manseau Family Revocable Trust

Name

10.18.19

Dated

002-1246

DEP File Number

3. The project site is located at:

54 Lake Attitash Road

Street Address

Amesbury

City/Town

59

Assessors Map/Plat Number

22

Parcel/Lot Number

The final Order of Conditions or Order of Resource Area Delineation was recorded at the Registry of Deeds for:

Property Owner (if different)

Essex South

County

37974

Book

210

Page

Certificate

4. A site inspection was made in the presence of the applicant, or the applicant's agent, on:

2.5.2021

Date

B. Certification

Check all that apply:

- ☒ **Complete Certification:** It is hereby certified that the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 8B – Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

002-1246

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B. Certification (cont.)

- ☐ **Partial Certification:** It is hereby certified that only the following portions of work regulated by the above-referenced Order of Conditions have been satisfactorily completed. The project areas or work subject to this partial certification that have been completed and are released from this Order are:
- _____
- ☐ **Invalid Order of Conditions:** It is hereby certified that the work regulated by the above-referenced Order of Conditions never commenced. The Order of Conditions has lapsed and is therefore no longer valid. No future work subject to regulation under the Wetlands Protection Act may commence without filing a new Notice of Intent and receiving a new Order of Conditions.
- ☒ **Ongoing Conditions:** The following conditions of the Order shall continue: (Include any conditions contained in the Final Order, such as maintenance or monitoring, that should continue for a longer period).

Condition Numbers:

32

- ☐ **Order of Resource Area Delineation:** It is hereby certified that the wetland resource area delineation for the above-referenced Order of Conditions has been satisfactorily completed

C. Authorization

Issued by:

Amesbury

Conservation Commission

2.19.21

Date of Issuance

This Certificate must be signed by a majority of the Conservation Commission and a copy sent to the applicant and appropriate DEP Regional Office (See <https://www.mass.gov/service-details/massdep-regional-offices-by-community>).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 8B – Certificate of Compliance
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

002-1246

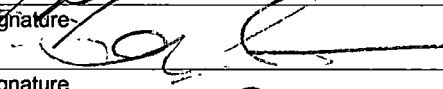
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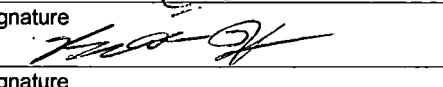
C. Authorization (cont.)

Signatures:


Signature


Signature


Signature

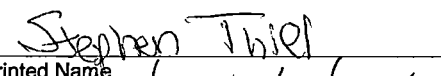

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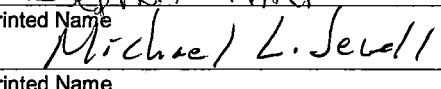
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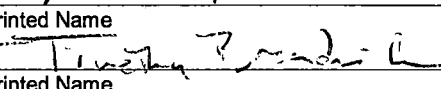
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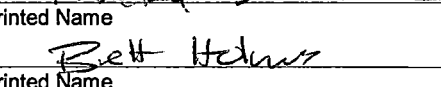
Signature

Signature


Printed Name


Printed Name


Printed Name


Printed Name

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Printed Name

Printed Name



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 8B – Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

002-1246

Provided by DEP

D. Recording Confirmation

The applicant is responsible for ensuring that this Certificate of Compliance is recorded in the Registry of Deeds or the Land Court for the district in which the land is located.

Detach on dotted line and submit to the Conservation Commission.

To:

Amesbury

Conservation Commission

Please be advised that the Certificate of Compliance for the project at:

54 Lake Attitash Road

Project Location

002-1246

DEP File Number

Has been recorded at the Registry of Deeds of:

Essex South

County

for:

Manseau Family Revocable Trust

Property Owner

and has been noted in the chain of title of the affected property on:

Date

Book

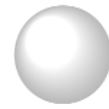
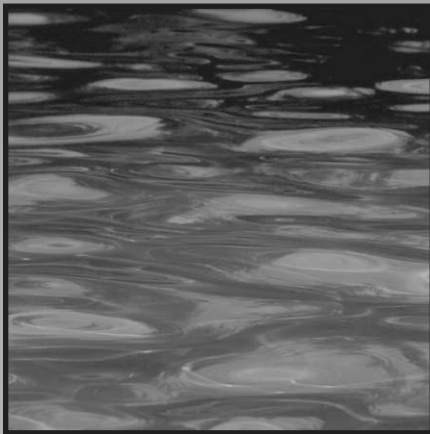
Page

If recorded land, the instrument number which identifies this transaction is:

If registered land, the document number which identifies this transaction is:

Document Number

Signature of Applicant



The Massachusetts Buffer Manual

**Using Vegetated Buffers to Protect
our Lakes and Rivers**

Prepared by
the Berkshire Regional Planning Commission

For
The Massachusetts Department of Environmental
Protection

2003



Bearberry Plant Info: Learn About Growing Bearberry Ground Cover

If you live in the northern half of the United States, you've probably passed by bearberry and never even knew it. This plain-looking little ground cover, also known by the name kinnikinnik, is surprisingly popular with landscapers and homeowners who need a low-growing perennial that requires little care. If you have a need for a carefree ground cover, take a look at the bearberry. Keep reading for more bearberry plant info.

What is a Bearberry?

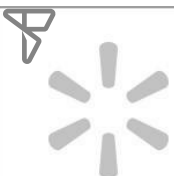
Bearberry (*Arctostaphylos uva-ursi*) is a low-growing ground cover that usually tops out between 6 and 12 inches (15-30 cm.). The flexible stems sport teardrop-shaped, leathery leaves in dark green. You'll find a small amount of white or pale pink waxy flowers between March and June.

Bearberry grows groups of cherry red berries that measure just under ½ inch (1.25 cm.) across. A lot of wildlife will eat these berries, but the plant gets its name because bears ^[1] absolutely love them.

Growing Bearberry Ground Cover

If you have a large plot of poor soil and need to landscape it, then bearberry ground cover is your plant. It thrives on soil poor in nutrients and sandy soil ^[2] that has a hard time supporting other ground covers.

Plant it in full sun ^[3] or partial shade ^[4], in spots where it will have space to spread. While bearberry is slow to grow in the first year, it will spread rapidly



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Start new plants by clipping off stems and dipping them into rooting hormone powder ^[5], then planting them in moist sand to root. A slower method is growing bearberries by collecting and planting the seeds. Store them in the refrigerator for about 3 months before planting, and rough up the outside of each seed with a file before you bury it in the soil.

Use bearberry on hillsides ^[6] or over rocky ground that needs coverage. It's ideal for use as ground cover underneath shrubs or around trees. Plant it along a rock wall and it will cascade down over the edge, softening the look of your landscape perimeter. If you live near the ocean, bearberry is salt-resistant ^[7], so use it as a seaside ground cover.

Once established, bearberry care is minimal with exceptional to occasional watering.

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URLs in this post:

[1] bears: **<https://www.gardeningknowhow.com/plant-problems/pests/animals/bear-control.htm>**

[2] sandy soil: **<https://www.gardeningknowhow.com/garden-how-to/soil-fertilizers/amending-sandy-soil.htm>**

[3] full sun: **<https://www.gardeningknowhow.com/garden-how-to/info/full-sun.htm>**

[4] partial shade: **<https://www.gardeningknowhow.com/garden-how-to/info/partial-shade.htm>**

[5] rooting hormone powder: **<https://www.gardeningknowhow.com/garden->**



What Is A Lowbush Blueberry – How To Grow Lowbush Blueberries

Most of the blueberries you see in grocery stores are from highbush blueberry plants (*Vaccinium corymbosum*). But these cultivated blueberries have a less common, delightful cousin – the wild or lowbush blueberry. Its small but very flavorful berries are almost candy-sweet, with an intense blueberry flavor. Although lowbush blueberries are typically found growing in the wild or on farms in a few U.S. states and Canadian provinces, it is also possible to grow them in a home garden. That is, if you can provide the specialized growing conditions they need.

What is a Lowbush Blueberry?

Lowbush blueberries (*Vaccinium angustifolium*) are often harvested in the wild, where they are found growing in sandy forest clearings and meadows and near the edges of bogs. Lowbush blueberries are also grown in semi-wild patches that are managed by blueberry harvesters.

Most lowbush blueberries are produced in Maine, New Brunswick, Quebec, and Nova Scotia. But gardeners in a wider geographical



Lowbush blueberries are very cold-hardy plants, and most varieties grow in zones 3 to 6. Some varieties can grow in zone 2 or in zone 7.

Like highbush blueberries and other plants in the heather family, lowbush blueberries are acid-loving ^[1]. They require soil that is high in organic matter, and they'll grow best in sandy, well-drained soil.

Each plant can grow to between 6 and 24 inches (15-61 cm.) tall, depending on its genetics and growing site. They can, therefore, be used as a low-maintenance groundcover. The plants typically flower in spring, and the berries are ready to pick ^[2] in mid- to late summer. Wild blueberries are smaller than cultivated highbush blueberries, but their flavor is more concentrated.

How to Grow Lowbush Blueberries

The best sign that your land is suitable for lowbush blueberries is that you've found some already growing there. In that case, remove surrounding vegetation to encourage them to spread. Growing lowbush blueberry plants from seed or rhizomes, either purchased or collected in the wild (your own property or with permission granted), is possible too.

Plant rhizomes or seedlings 8 inches (20 cm.) apart in well-drained soil amended with peat, compost, or sawdust. Amend the soil to a pH of 4.5 to 5.2 using sulfur or ammonium sulfate. Keep the plants watered during the growing season. Remove the flowers from each plant for the first year or two to ensure strong growth of the roots.

Flowers are removed to ensure strong growth of lowbush blueberries.



plants' spread. Large plantings can be renovated by mowing them in the fall after they shed their leaves.

Fertilize the blueberries ^[3] yearly with an azalea/rhododendron fertilizer or another source of soluble ammonium and with a magnesium source.

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URLs in this post:

[1] acid-loving: **<https://www.gardeningknowhow.com/garden-how-to/soil-fertilizers/raise-acid-level-soil.htm>**

[2] berries are ready to pick:

<https://www.gardeningknowhow.com/edible/fruits/blueberries/tips-on-harvesting-blueberries.htm>

[3] Fertilize the blueberries:

<https://www.gardeningknowhow.com/edible/fruits/blueberries/blueberry-fertilizer.htm>

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Virginia Creeper Maintenance: Growing Info And Virginia Creeper Plant Care

A vigorous and fast growing vine, Virginia creeper (*Parthenocissus quinquefolia*) is an outstanding plant for nearly any soil and light situation. Growing a Virginia creeper vine provides a nearly carefree addition to the landscape. Virginia creeper maintenance is limited to light pruning and tying up. Learn how to prune Virginia creeper vine and what problems and pests may be an issue.

Growing Virginia Creeper Vine

Virginia creeper produces one of the most spectacular color displays of fall. The five-pointed leaves are usually just an average green but turn a brilliant crimson once temperatures cool.

Virginia creeper can grow in sun to full shade, where soils are soggy to dry and even in lightly alkaline soils. The adaptability of the plant makes it suited for any site but care should be taken to keep it off wood siding and gutters. The vine climbs and adheres to vertical surfaces with aerial roots, and the weight of the plant could pull off boards and misalign gutters.

If you are trying to cover an area with the vine, plant several at once, as the plant does not branch well. Use plant ties to help it start its climb up a vertical surface. You can also use it as a ground cover, much like an ivy ^[1] or vinca ^[2].

This is a perfect plant for a novice gardener since Virginia creeper plant care is minimal and it is a very forgiving vine.



Virginia creeper is a carefree plant. It is a deciduous perennial vine with a woody stem. The plant will bloom in June to July with green inconspicuous flowers. They turn into round ball-like fruits, which persist on the vine and add interest. You can cut these off if you have children, as they are highly toxic. Birds will enjoy them if you leave them on the vine.

Watch for leafhoppers, scale ^[3] and Japanese beetles ^[4]. Treat with the appropriate insecticide to quell these types of invaders.

The plant may need supplemental water during extended periods of drought but can tolerate short periods of dryness.

The vine is remarkably versatile and vigorous. It can stand alone with little external influence but will grow thicker and more lush with annual fertilizer and shearing.

Occasional pruning is a part of Virginia creeper maintenance. When left to its own devices the vine can grow 50 to 90 feet (15-27 m.) long. Annual trimming will help keep it to a size that is manageable.

How to Prune Virginia Creeper Vine

The plant rarely needs trimming unless it is encroaching upon a pathway or structure. The vine is very forgiving, which means little finesse is needed when pruning Virginia creepers.

Remove any stems that have been broken from the main plant. Choose sharp, clean pruning shears for Virginia creeper maintenance and cut outside the main stem to prevent injury to the plant. Use plant shears to thin it back where it is getting too bushy. You can cut away small stems where they are getting unruly, but wait until early spring for large scale cutting.

The stems attach with little “feet” that can get into cracks and crevasses. Occasionally these need to be pried away to prevent the vine from growing into areas that could become damaged. Use a flathead screwdriver or other flat



to other parts of the plant.

This North American native plant requires little maintenance and will reward you with easy-care coverage and fall color.

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<https://www.gardeningknowhow.com/ornamental/vines/virginia-creeper/virginia-creeper-maintenance.htm>

URLs in this post:

[1] ivy:

<https://www.gardeningknowhow.com/ornamental/groundcover/english-ivy/english-ivy-plant-care.htm>

[2] vinca:

<https://www.gardeningknowhow.com/ornamental/groundcover/periwinkle/growing-periwinkle.htm>

[3] scale: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/control-plant-scale.htm>**

[4] Japanese beetles: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/japanese-beetles.htm>**

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About Creeping Junipers – Tips For Growing Creeping Juniper Ground Cover

If you're looking for a low-growing ground cover that thrives on neglect, give creeping juniper (*Juniperus horizontalis*) a try. These graceful, aromatic shrubs spread to fill sunny areas and they can be used as foundation plants or accents in flower borders. Use them near decks, porches and garden seating where you can enjoy their pleasant fragrance. Learn more about creeping juniper care and how to use creeping juniper ground cover in your landscape.

About Creeping Junipers

Creeping juniper is a low-growing evergreen shrub that is often used as a ground cover. It features plume-like branches that extend horizontally. The foliage often has a blue-green cast in spring and summer and plum-colored tint in winter.

Male and female flowers grow on separate plants, and the female plants produce berries. Neither the flowers nor the berries are particularly ornamental. The height varies depending on the cultivar. They may be as short as 6 to 8 inches (15 to 20 cm.) or as tall as two feet (61 cm.). Each plant can spread as much 6 to 8 feet (2 m.).



Creeping Juniper Requirements

Creeping juniper adapts to almost any soil, including those that are hot, dry and poor in fertility. In fact, these little shrubs flourish in hot, dry conditions near walls and sidewalks where most ornamentals won't survive. You can also take advantage of their drought-resistance by planting them in areas where irrigation isn't always possible.

While it thrives in clay, compacted and sandy soils where grass refuses to grow, the shrubs prefer well-drained soil and a sunny location.

Creeping Juniper Care

As with most juniper shrub care ^[2], creeping juniper is a low-maintenance plant that never needs pruning or cutting back. In fact, creeping junipers won't tolerate a lot of pruning. However, you can remove some of the plants if it spreads beyond its boundaries, though it may be easier to select a species or cultivar that naturally grows to a height and spread to fit the site you have in mind.

Watch for insects and diseases. Control bagworms ^[3] and webworms by removing and destroying the bags and webs. Control scale ^[4] insects, spider mites ^[5], leaf miners ^[6] and aphids ^[7] with insecticides labeled for the target insect.

Creeping juniper is susceptible to several fungal diseases that cause yellowing, browning and dieback. Cut off infected parts of the plant and use a fungicide labeled for use on junipers.



URL to article:

<https://www.gardeningknowhow.com/ornamental/shrubs/juniper/growing-creeping-junipers.htm>

URLs in this post:

[1] xeriscaping:

<https://www.gardeningknowhow.com/special/xeriscape>

[2] juniper shrub care:

<https://www.gardeningknowhow.com/ornamental/shrubs/juniper/care-of-junipers.htm>

[3] bagworms: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/treatment-bagworms.htm>**

[4] scale: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/control-plant-scale.htm>**

[5] spider mites: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/spider-mite-treatment.htm>**

[6] leaf miners: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/leaf-miner-control.htm>**

[7] aphids: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/homemade-aphid-control.htm>**

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Sweetfern Plant Info: What Are Sweetfern Plants

What are sweetfern plants? For starters, sweetfern (*Comptonia peregrina*) isn't a fern ^[1] at all but actually belongs to the same plant family as wax myrtle ^[2] or bayberry ^[3]. This attractive plant is named for the narrow, fern-like leaves and sweet-smelling foliage. Interested in growing sweetferns in your garden? Read on to learn how.

Sweetfern Plant Info

Sweetfern is a family of shrubs and small trees measuring 3 to 6 feet (1-2 m.). This cold-tolerant plant thrives in chilly temps of USDA plant hardiness zone 2 to 5, but suffers in warmer climates above zone 6.

Hummingbirds ^[4] and pollinators love the yellowish-green blooms, which appear in early spring and sometimes last through summer. The blooms are replaced by greenish-brown nutlets.

Sweetfern Uses

Once established, sweetfern grows in dense colonies, which makes it a great choice for stabilizing soil and controlling erosion. It works well in rock gardens ^[5] or woodland environments ^[6].

Traditionally, sweetfern poultices are used for toothache or muscle



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Tips on Sweetfern Plant Care

If you're interesting in rowing these plants in the garden, look at local or online nurseries ^[8] that specialize in native plants ^[9], as sweetfern plants aren't always easy to find. You can also take root cuttings from an established plant. Seeds are notoriously slow and difficult to germinate.

Here on some tips on growing sweetferns in the garden:

Once established, sweetfern plants eventually develop dense colonies. Plant them where they have room to spread.

Sweetferns prefer sandy or gritty, acidic soil, but they tolerate nearly any well-drained soil. Locate sweetfern plants in full sunlight or partial shade.

Once established, sweetferns require little supplemental water. These plants rarely require pruning, and sweetfern has no serious problems with pests or disease.

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[1] fern:

<https://www.gardeningknowhow.com/ornamental/foliage/ferns/taking-care-of-outdoor-ferns.htm>

[2] more results:



[3] bayberry:

<https://www.gardeningknowhow.com/ornamental/trees/wax-myrtle/growing-dwarf-myrtle.htm>

[4] Hummingbirds: <https://www.gardeningknowhow.com/garden-how-to/beneficial/attracting-hummingbirds.htm>

[5] rock gardens:

<https://www.gardeningknowhow.com/special/spaces/backyard-rock-gardens-building-a-rock-garden.htm>

[6] woodland environments:

<https://www.gardeningknowhow.com/special/shade/woodland-garden.htm>

[7] keep mosquitoes at bay: <https://www.gardeningknowhow.com/plant-problems/pests/pesticides/repelling-bad-bugs-with-plants.htm>

[8] online nurseries: <https://www.gardeningknowhow.com/garden-how-to/shop/buying-plants-online.htm>

[9] native plants: <https://www.gardeningknowhow.com/garden-how-to/info/native-plant-information.htm>

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Dropwort Plant Care: Information On How To Grow Dropworts

Filipendula, dropwort, meadowsweet, queen-of-the-prairie, queen-of-the-meadow; no matter what you call them, dropworts ^[1] in the garden are always welcome. Species of *Filipendula* are found all over the world and when you look up dropwort meadowsweet info, you'll find that each of the many common names refers to a different species of the same genus.

Dropwort Meadowsweet Info

For centuries, people learned how to grow dropworts for medicinal purposes. An infusion of dropwort tea was used to treat minor pain and headache and in 1839, scientists discovered what herbalists had known all along. It worked. Salicylic acid, aspirin to we layfolk, was first extracted from the flowers of *Filipendula ulmaria*, queen-of-the-meadow, way back then. Maybe it's the name, but you rarely read about dropworts in the garden anymore and yet they make such a beautiful and easy care addition.

Dropwort meadowsweet info is often found under the Latin *Filipendula*. Dropwort/meadowsweet is a member of the rose family. It grows in spreading clumps that usually reach about three feet (1 m.) high and three feet (1 m.) wide and it's a hardy perennial in



Information on How to Grow Dropworts in the Garden

Dropworts in the garden do double duty; first for its clusters of tiny flowers that range from white to deep pink in early to midsummer and second, for its lovely foliage sported by all species of dropwort. In the garden the long leaves, pinnately decorated with seven to nine feathery leaflets, give a fern-like appearance that contrasts nicely and softens the look of some of nature's plainer and more solid leaves. Due to their height, dropworts are usually found in the back or middle ground of the garden bed.

There's nothing extraordinary about how to grow dropworts. The plant likes the sun, but will tolerate some shade and isn't subject to any pests or diseases except the rare case of powdery mildew ^[2] and the dreaded Japanese beetle ^[3]. It does best in slightly alkaline soils, but will do fine in average, neutral soils ^[4] as well.

Dropwort Plant Care

Like most plants they prefer moist, fertile soil, but since there's nothing fussy about a dropwort, plant care is simple. Water regularly during the transplant season so the plant becomes well established and then let the rain do most of the work.

Fertilize in the spring when new growth appears, but don't get carried away. You'll want flowers as well as foliage.



tough roots into three or four clumps or keep your eye out for self-sown seedlings, which seem to have better success at germinating (and much less fuss) than from store bought seed. Dig a hole twice as large as the roots of the transplant and settle the plant to the same depth as you found it. Backfill with good, rich soil and water regularly. That's all it takes.

Whether you call it *Filipendula*, dropwort, meadowsweet, or any of the other common names by which it is known, everyone should try dropworts. Plant care is easy and the results are well worth it.

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URLs in this post:

[1] dropworts:

<https://www.gardeningknowhow.com/ornamental/flowers/dropwort/how-to-grow-dropworts.htm>

[2] powdery mildew: **<https://www.gardeningknowhow.com/plant-problems/disease/get-the-cure-for-powdery-mildew.htm>**

[3] Japanese beetle: **<https://www.gardeningknowhow.com/plant-problems/pests/insects/japanese-beetles.htm>**

[4] alkaline soils, but will do fine in average, neutral soils :

<https://www.gardeningknowhow.com/garden-how-to/soil->



Wintergreen Plant Care: Learn About Wintergreen Growing Conditions

Evergreen groundcovers keep the life in the landscape even in winter. Gaultheria, or wintergreen, is a sweet little plant with mint scented leaves and edible berries. It is perfect for cooler regions and is native to North America. Some tips below can help you decide if it is right for your garden as well as a guide on how to care for wintergreen.

Growing Wintergreen Plants

Any area of the garden that is shady to partially sunny make ideal wintergreen growing conditions. These low growing plants form creeping mats of glossy green foliage that turns red to bronze in winter. The decorative red berries are an added bonus that were used in candies, gum, perfume, cosmetics, teas and other uses prior to synthetic flavorings.

Wintergreen (*Gaultheria procumbens*) is a forest plant in its native habitat. It primarily colonizes areas around natives like mountain laurel ^[1] and rhododendrons ^[2] in moist, acidic soils. Much of its wild range is west of the Mississippi River, but it is also found south to Georgia. As understory plants, a low light area is best suited for growing wintergreen plants.

The species name, *procumbens*, proclaims this as a ground cover because it means “lying flat.” Optimal wintergreen growing conditions are found in United States Department of Agriculture zones ^[3] 3 to 8 or AHS heat zones 8 to 1.

Wintergreen plants perform best in light to full shade in areas with cool summers. The plants do not enjoy hot, humid conditions, suffer in drought and dislike overly wet, boggy soils.

How to Care for Wintergreen



and even established, mature plants require supplemental moisture in hot, dry summers.

No pruning or mowing is required with this plant. It also has few pest or disease issues, partly due to the pungent oils the crushed leaves and berries emit. The only concern of issue is cosmetic, where rust can discolor the leaves.

In summer, pale bell-shaped flowers appear and lead to deep red drupes. The berries may persist well into the winter if birds do not eat them or if you aren't tempted to try your hand at a sauce or canned preparation.

Wintergreen Plant Propagation

As with most berries, these plants can be propagated with their seeds. In fact, in ideal conditions, the plants may self-sow. The seeds need to be separated from the pulp and given 4 to 13 weeks cold treatment. Plant seeds in flats filled with peat and sand in early spring. Place flats in a greenhouse or cold frame until sprouts are noticed. Seeds should sprout in 1 to 2 months but plants are slow to grow.

A faster method of wintergreen plant propagation is through division. Divide plants in early spring. After planting divisions, provide average water as part of essential wintergreen plant care, unless the spring rain is consistent. Wintergreen can also be propagated by semi-ripe stem cuttings with a little rooting hormone ^[4] and a low soil medium.

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URL to article:

<https://www.gardeningknowhow.com/ornamental/foliage/wintergreen/wintergreen-plant-care.htm>

URLs in this post:

[1] mountain laurel:

<https://www.gardeningknowhow.com/ornamental/shrubs/mountain-laurel/mountain-laurel-growing.htm>



ron/rhododendron

Herbaceous Perennials



Cup Plant *Silphium perfoliatum*

A native to central-eastern Canada to southeastern United States (zone 3-9). It is typically found in habitats such as moist meadows near rivers, low-lying woodland edges and thickets, fens and seeps, lake borders, fence rows, and along ditches near railroads. It prefers full or partial sun, and moist loamy soil. Commonly grows 4 to 8' tall and blooms yellow flowers July through September.

The cup plant is a taller species that needs ample space to grow. It will be more effective for wildflower/native plant gardens, naturalized areas or moist, open woodland areas including stream/pond edges.



Common Blue Violet *Viola papilionacea*

A native species to Eastern North America (zone 3-9). Commonly found growing in yards, low woods, meadows, waste areas, and along roadsides.

Blue violet can grow 3-8" tall and prefers part shade to full shade. During the bloom period of April to June it produces blue-purple flowers and occasionally white or bicolor. It can be planted in low wood areas and is one of the first species to bloom in early spring.

Herbaceous Perennials



Joe pye weed *Eupatorium maculatum*

A perennial that is native to the eastern U.S. (zone 4-9). This plant grows 4-7' tall and prefers moist, fertile, humusy soils, which do not dry out. It thrives in full to partial sun and blooms light to deep purple from July to September. It is often used in landscaping for bordering, cottage gardens, meadows, native plant gardens, wild/naturalized areas or water edges.

Shrubs



Inkberry *Ilex glabra*

This evergreen native to eastern and south central United States (zone 5), is typically found in large suckering colonies in swamps and wet areas. Inkberry prefers full to partial sun and adequate soil moisture. It is frequently used in landscaping to be planted for borders, around foundations, and for mass plantings. It also used in wet locations and possibly in coastal areas because of its salt tolerant abilities.

Shrubs

Pinxterbloom



Rhododendron nudiflorum

A multi-stemmed, deciduous shrub found in the eastern United States (zone 4). Typically 4' to 6' tall, but can be taller. Its pale pink flowers bloom in late May. Pinxterbloom prefers full sun to part shade and a woodsy, organic, acidic soil that is moist. It also has a tolerance of dry, thin rocky soils. Used in landscaping for shrub borders, naturalistic areas and in groupings.









